Former Soviet Payphones!



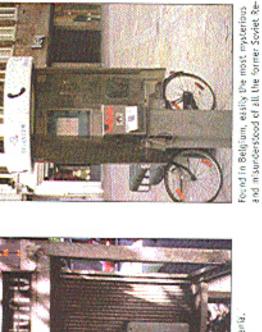
This disb phose is a reflection of the monotonous life that awaits you in Kazakhstan.

Photo by William W. Perkins



This bright and colorful phone represents the constant fun and dancing that goes on every day in Kyrgyzstan.

Photo ny William W. Perkins

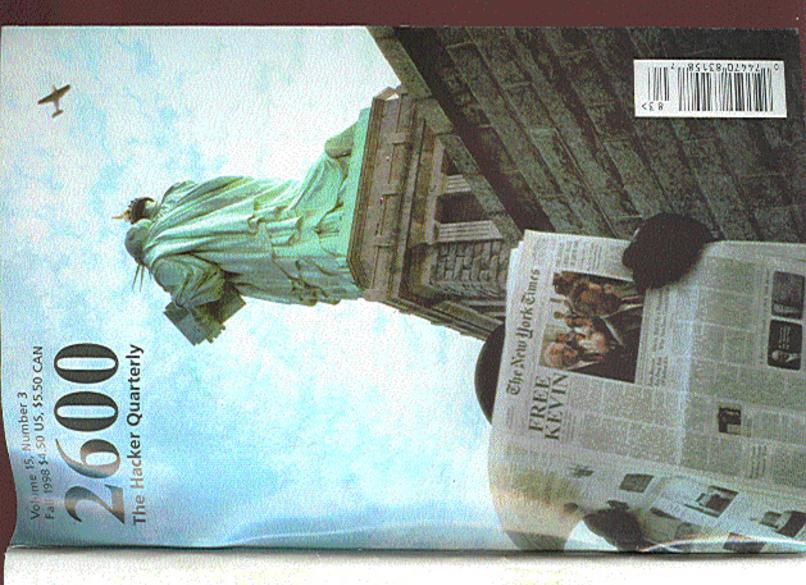


Drabness returns in Armenia.



Come and visit our website and see our vast array of payphone photos that we've compiled: http://www.2600.com

Photo by Derek Brown



vengeance, by the Cult of the Dead Cow, as reported customers should take seriously." - Edmund Muth of Microsoft, reacting to the release of Back Orifice, a they said this BEFORE the program was released. "This is not a tool we should take seriously, or our in the New York Times. We should point out that program that attacks Windows 95/98 with a

S

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e I acker

We've said often that every time we

that has no basis in reality, or something a lot
closer to home, we
wind up actually gaining strength when the
dust clears.

get hit with something, whether it be word of a chilling raid somewhere, a moronic law

Well, the dust is far from clearing but it's pretry obvious that we're heading someplace with renewed vigor. The backer spirit is self-invigorating and it's surprising how many people either never realize this or forget it rather quickly as they move on

Let's start with the close to home stuff. It was a year ago that we first told you about our crippling financial problems, caused primarily by our main distributors going bankrupt and taking a year's worth of our sales with them. We know we weren't going to let this destroy all we've accomplished over the years but we felt we needed to explain why things might get sort of frozen and unbappy in the months ahead.

To the surprise of many, we didn't stagnate at all. Against the advise of everyone with a modicum of sense, we went forward with new issues, new projects, and new campaigns. We are eternally grateful to those of you who stuck with us in this difficult period, which, we are happy to say, is now behind us. Thanks to strong sales at the newsstands, we've been able to pay just about all of our printing debts and, by the time you read this, we should be entirely caught up. We lost a number of subscribers and we can certainly understand why. If there was even a remote possibility of our going under, who would want to lose their

> subscription payment? Now that we're back every quarter, you'll be able to take out subscribing, you'll get your issues on time numbers go back up. The advantages to in force, we hope to see the subscription marketplace ads for free, and you'll oocasionally get extra things like down the road. the "Free Kevin" stickers we tec/bookstore catastrophe threw in with the Spring run into another distribuissue. We're not trying scriber base in case we to discourage people also have a strong subfrom picking us up at the bookstores and feel it's important to newsstands but we

While we lost a year financially, we were able to minimize our sotbacks when it came to the truly important things. Since launching the "Free Kevin" campaign earlier this year, we've managed to raise nearly \$3000 for Kevin Mitnick's defense fund through the sale of our bumper stickers. By revamping the www.kevinmitnick com and www.2600.com sites, we were able to get many more people interested, and hence involved, in something that really mattered.

External forces deserve a lot of credit for moving us forward. The announcement of the Takedown movie in our last issue and in other forums produced a strong reaction, the likes of which we have not seen in our entire publishing history. It was bad enough knowing Kevin was still in prison after more than three years of waiting for a trial that never seemed to come. But now, a film that would portray him as a truly evil person and at the same time line the pockets of those who helped put him in the position he now faces? Even people who thought he was guilty of something came out strongly opposed to this.

It started in July with a demonstration outside Miramax offices in New York by around two dezen of us. That doesn't sound.

like much but whenever you can get that many people to stand in front of a building with picket signs in this day and age, it's a very significant statement. Sad but frue. And the impact of that demonstration was clearly felt throughout the industry. Even the press took notice, although it took most of them a few weeks to get around to covering it. But in the end, our demonstration achieved everything it set out to do: raise awareness, begin a truly organized campaign, and show support for someone who was unable to defend themselves against a host of really powerful entities.

Miramax, to their credit, had the script rewritten several times, addressing nearly all of our objections to the original version. The infamous garbage can scene has been scrapped. Kevin is no longer portrayed as a violent racist. And, in a nod to reality, serious questions are raised as to just how involved Kevin actually was in the hacking of Tsutorne Shimomura's machine and, even more importantly, just why the FBI was targeting Kevin in the first place. But we can't say we support the first place. But we can't say we support the first place and fairly As of this printing, that has still not happened.

we decided to do something more. So, for a suffice to say, we've got a fascinating story equipment we can get our hands on but, with it now depends on what kind of editing nearly 100 hours of footage. What we do volvement in the case and came away with with dozens of people on all levels of infilming as much of it as possible. We spoke answers in the whole Mitnick affair and (unlimited mileage rental car) searching for people dreve through the entire country good part of the summer, a group of 2600 we saw to be real inspiring. So much so that in a year. to the major motion picture that will be out to tell and a most interesting counterpoint We found a lot of the cause and offect

Considering the weakened state 2600 was in at the time we began this project, such an endeaver could best be described as

foolhardy. Nevertheless, we knew this was the right time, and the only time, we could cover the story in this way. The "Free Kevin" movement has been growing with every passing month and the news of the Takedown movie only served as a catalyst. Again, good has come out of bad and all of us emerge from the darkness with more strength and determination.

mails, spreading awareness and adding to sons why the battle was won. this will be shown as one of the major reable to go and do it. In the end, we believe to do but so few of us actually take the troubelieve in. It seems like such a simple thing ference, just by standing up for what they colleges are realizing they can make a difthey're doing. People in high schools and seem more worthwhile than hearing what real truth is that nothing makes all of this them say they were inspired by 2600, the handing out leaflets in their schools and the word out. All over the country, kids are the movement. While we've heard many of We're certainly not the only ones getting

One of the most dramatic incidents in recent memory was the New York Times web page back. On Sunday, September 13 (an extremely busy news day due to the Clinton scandal), backers replaced the usual page with a rambling text, the entirety of which may have been hard for some to understand. But one section quite clearly told of the injustices of the Kevin Mitnick case as well as the culpability of the Times in his capture and the ensuing cashing in of the story. For many, this was their first exposure to any of this.

The message from Kevin and his attorney was very clear: this kind of thing is bad as it sends the wrong message and somehow makes it appear as if he's responsible for net chaos. However, we have mixed feelings. While doing something destructive in Kevin's name certainly won't help his case, we're not entirely sure that's what happened here. The Times is not claiming that there was any destruction to their original page A

Progress Continued on Page 53

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HOMEMADE

TCPPACKETS

The code presented here is a subset of my alpha perl spoofer, slapfire, which is available from 9mm.com/philez.html. I thought it would be nice to see something other than a knockoff of a knockoff of a spoofer for once and maybe give some more people the ability to play with the insides of tep-ip.

Greetz, boys and gurliez. Today, we play with the insides of top/ip. In particular, we'll be building a top spoofer in perf (yeah, you can do icmp or udp too if ya want). We'll call this one - umm - lego All we really want to do with lego is build our own packets. This can be useful if you like to set the source address to something arbitrary, or if you want to experiment with flags or some shit. We're not going to do top connection spoofing, because that would be too big in scope for our purposes. At this point we'll just send out some top packets with increasing port numbers, sort of like the way a half-opened portscan would look.

If lots of people begin to use this, we get the added benefit of making uptight sysadmins look silly, and finally teaching them that portscaning is neither harmful, intrusive, nor necessarily evidence that anything at all came from the apparent source of the

> mangled in transit. I admit, I ripped off the a checksum for the packet - used to tell the say, by incrementing the destination port send lots of packets or to vary the packets, any looping and shit that we might use to tion address, ports, number of packets, and that we will use to create our packet: the subroutine. nested 1,2,3 - they each use the next as a ready there for you? The three sections are wants to write checksum code when it's alchecksum code from Nett:Ping. Shit, who receiving machine that the packet didn't get packet together. The third section calculates headers will look like, then we put the the guts: we figure out what our ip and top first sets up things like source and destinaeach time we send. The second section is There are three main sections of code

A Quick Tour

The first point of interest is the specifications of target box, source box, and ports. If your ambition is low and all you want to do is watch some home-brewed top packets fly, just put in some valid source and destination addresses, run a sniffer, and enjoy. For the slightly more motivated, you could take these five items as parameters from the command line.

tepspoof routine:

things like convert our hostname or ip adport in the range Sdost_port_low -> socket here and get ready to send the packet source address for you). We open our cally, the OS will do things like set the use to indicate what we are building and name) and set a few constants that we will dress into something usable (gethostbypend it. Make sure you account for the inany) but if you want to add some, just apstruct the entire packet for us. At this point, used to be used only for headers, will conis the packet. Our givehead routine, which cause we want to send one packet to each - we start the port incrementing loop, behow much of it we're responsible for (typicreased packet length in your assorted we put no data in the packet (don't nood \$dest_port_hi. The only thing we need now ing packets, we chill and have a 40, and our packet maker tells us that the scan is comlength vers to come. Once we're done send-This is the first main routine - we do

givehead routine:

a lot of the setup of the top portion of the which to calculate the tep checksum. We do first we create a top pseudo-header on hard to screw up, givehead does two things: literally encrysking in variables, so it will be program. I've taken the liberty of sticking into the precise format that we need it in pert "pack" command to pet each variable header parts actually come first. We use the packet at this time, even though the ip wicked handy to know what a top packet statement). At this point, it would also be able but not great explanation of the pack (soe ORA Programming Perl for a reasonsize, meaning, and ordering of all of the classes or something. Just understand the ries or find little charts from networking It's the best. Otherwise you can browse the baks like - get TCP/IP Illustrated Vol. I. This is the big buby Jesus routine of the

fields in a top packet.

OK, nuff preacher. Here is where our more archinous readers can really get loose. Take note of the \$top_ variables, and later the ip_variables. Want to set a SYN, FIN, and RST in the same packet? Switch these to 1. Want to serw with sequence and acknowledgment: numbers? Go ahead even put in a little routine to increment them if you like. Make the packet length wicked long and send no data. Fool with the urgent flag and pointer (remember the OOB attack?), etc., etc.

Oh yeah - the second step, after we've get the tep checksum, is to put it all together along with the ip header. This is a good place to set fragmentation options, type of service, time to live, even ip version. You should be able to build just about any tep toeking packet that you can intagine just by messing with the variables. Note to selves: do not put an unfriendly data type in a variable. Example: do not put a "2" in a bit field. Thanks for playing.

The last routine is the checksum routine, and, like I said, I stole it. (I re-commented it for aesthetic purposes). At least it ain't from ping.c.

Peace and enjoy.

[source on pages 8 and 9, built and tested in linux 2.0.28, pert v5.03]



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```
lego

bere south das proj

witten for 200

bere en stapino, elpho version
written by siff

TO fore portacen enty.

shout extra elema.

shout extra elema.
```

s the following is not a top booker per ma, but a possed header a used to calculate the top shedown. yes, its a pair in the data by (special, top) = path ("at ah C C.

9

my (\$top_chique) = McDeckfoo(\$pteudo_top);

Specifiest,Start.book,Exerc.Sortle_too,
Sopilingth_Sort_port,Start.port,
Sopilingth_Sort_port,Start.port,
Specifiest,
Start.Dook,
Start.Book,
Sta

my Stop_fin_bit = 0; # FIN Sixt DIT
here of an impactor 2 reperved finish and the 8 fings to pass as binary;
here of an impactor 2 reperved finish and the 8 fings to pass as binary;
#y Stop_markit: = Stop_markit: _ Stop_markit: _ Stop_markit: _
Stop_markit: _ Stop_ma

e Mayor Counced Problems
my Storages Date = "Problems and common of Storages Date = "Problems and Storages Date = "Problems Date

> a plan with the legicals of the LD reach effect if
> my Signeration = "A", a (aythin) topoly version number (current to it)
> my Signeration = "A", a (aythin) topoly version number (current to it)
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> my Signer, which = Signer, a (aythin) is type of consider
> my Signer, a "B", a (aythin) is type of consider
> my Signer, a "Replace of the Signer to the pocket
> my Signer, and a Middle A bytes on which
> my Signer, and a Middle A bytes on which
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> I there is no the control associate to the pocket in act where sub destrino (sang Sang Sang Stort return Shdry my (Detr) = peck (12 H2 n n 815 (2 fidit askable robbed from compliate else.... the seek tool
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> the se Stenuns; = length(Snap); Snum_short = Slenunsp / Z; Schk = B; Great foort (unpock("Sham_stert", Sessi)) Sith as Schoot; Mort, Surjudian, Status, Statisnath, Siptingmentian, Statisnath, Siptings, Arthur, Statisnath, Spratt, Sprat Ssyn, Sock, Shd-Laurescened, Masp. Codebiits, Sulpuri, Cobertie, Masp. Chaster, Stop_ungent, pointer); a length of the essage The number of there werds in the message that start word The chackfro a The message to checkfro 态器 3 04 98

Fall 1998

Socket Programming For Fun and Profit

grams, they should be able to do so and understand the basics of them. Our goal in this article will be understanding of the TCP/IP protocol cle assumes some basic C programming skills from the reader along with some basic knowledge and to create a portsegmen. Simple and clean with just bosiname lockup and no extra functions. This artiall backers/wannabes around the globe. Because even if every backer doesn't write their own proreason for me writing this article was both to learn and to give some useful and creative information to nole. If you can't take responsibility for your own actions, what makes you think anyone else can? The $oldsymbol{dash}$ of those sheady familiar with the basics of socket programming may stop reading right now. □ inst of all, this is no article for expens since I'm no expen myself on either TCP/IP or C. So all And by the way, I am not responsible for any actions taken due to the information within this ar-

We will use the gethostbyname(3) to process the given argument (See code1) do that in C I will skep the gode for it. After that it will take the hostname, (argef II), to see if it's valid. ner does is check the number of arguments given to the program. Since I suppose you all know how to First of all, we'll have to ask ourselves "How does a portsourner work?" The first thing a portsoup

```
#define b_oddr_h_oddr_list[8]
                                                                                                                                                  struct hostest [

    Structures returned by methods data base library; all addresses are
supplied in bast order, and returned in network order (suitable for

                                                                                                                                                                                               " use in system calls)
                                                                       2
                                                                                                 ĝ
                                                                                                                          964
                          h_length;
'Th_addr_list;
                                                                       h_oddrtype;
                                                                                                   **p_plicses;
                                                                                                                       Same?
/* oddress, for bookward compatibling */
                      /* list of addresses from name server */
                                              V* length of oddress */
                                                                         /* host address type */
                                                                                                 /* altas list */
                                                                                                                     /* official name of host */
```

name()), and looks like this:

the definition of bootent is found in smetab.ha, (as is the definition for gethostby-

struct hostent "host = get/costsymame(argv[1]);

a little test pragram This means that our IP number for the best given in expv[1] is stood in bast >h_name. Let's write

getip.c

```
actd math(int orgo, cher "orgo) f
                                                                                                                                                                                   #include anetablia-
victim = gethostbyname(orgv[1]);
printf("%: %:.%:.%:\n",victim-sh.oddr[0]
                                                                                                          struct Mostent Pricting
                                                                      if (argo-2) exit(printf("use with host as organent \n"));
```

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,victim-sh_addr[1] ,victim-sh_addr[7] .victin->h.oddr[3])

the targer hose's address. What should we do next? . As you can see, all four segments of the IP number are stored into a separate byte. So now we have

Establish Connections

lüpht com; here is what would happen (skipping nslookup). can tell that socket to connect to a portion a host. Let's say we would want to connect to the website at puter. (It is the endpoint of the openeotion) Once you have instance a socketion your computer, you First of all, you initiate a socket, let's call it "S". This socket allocates a feet port on your own A brief description of what really happens when you occoper via TCPSP to a remote host is in order

Use S to connect to www.10pht.com, port 80 Editate socket S. (Got a fice port, lets say you get 2222.)

In theory your connection would look like:

Simo www.loph.com/80

but in reality this is just:

youthost:2222 --- > www-lipht.com/Si

stocket(2). Here's the definition of socket(2): are closed. Let's start to take a look at how to code this. To exects the socket we will use the function every port between a specified range on a host to see which ports (services) are opened and which ones So what we need to do is to create a socket and tell it where to connect. A portscanner connects to

int socket(int domain, int type, int protocol);

It returns an integer above zero (which is the socket handler) upon success or "-)" if it fails to ere-

nect(2) is *sys/types.h> and *sys/socket.h>. particular socket type within the protocol family. The required header files for socket(2) and contherefore set to 0, due to the fact that most of the times there only exists one protocol to support the provides a two-way connection based byte stream. The protect argument will not be used and is ARPA internet protocol and the one we will use. The type we will be using is SOCK_STREAM which Example usage of sockes(2) is S-socket(AF_INET,SOCK_STREAM,0). The AF_INET is the

The definition for consect(2): After the spakes is created we will use the connect(2) to establish the connection to the target host

int connectint sockfd, struct sockaddr *serv_addr, int addrlen);

use the sockeddr_in struct, (so also include <aetinesia.h>) sockeddr_in looks like this spekfd is the socket descriptor/handler (S in our example). Instead of the sockaddristructive wall

```
struct in oddr (
                                                                                                                                                                            struct sockoddr_in {
                                                                                                                                                                                              #define __SOCK_SDE__
                                                                                                                                                                                             unstigned chan
                                                                                                        /" Pod to size of 'struct sockaddr', "/
                                                                                                                          struct in_oddr
                                                                                                                                          unsigned short int
                                                                                                                                                              Shore the
                                                                                                                                         sin_port;
                                                                      ...pad[...SOCK_SIZE__ - sizeof(short int) -
sizeof(unsigned short int) - sizeof(struct in_addr)];
                                                                                                                          ein_addr)
                                                                                                                                                          sin_family;
                                                                                                                       /* Internet oddress
                                                                                                                                         /* Port number
                                                                                                                                                            /" Address formly
```

By what you can see above, the sin_addr.s_addr is just an unsigned 32 bit number to represent the

IP number (for example 0x7F000001 is 127.0.0.1) So how do we convert the result in host-ob_sold given by pethosity;seme(3)? Easy, we'll just cast the host-ob_sold with *(long *)(host-ob_sold). Finally, don't forget to use the blons(3) to convert it to revers byte order on x86. And the sold for argument is just sexeof(sockaddr). We will have to cast our sockaddr_in variable to a sockaddr struct when passing it to connect(2). And of course, one final thing, don't forget to dose down your socket. Use close(2) with your socket as argument. Like: close(s) (The definition of close(2) is found to consist the close(s).

Writing The Code

pontscon, c

Now when your fingertips are itching to get down to business don't let me hold you back. You should without problem he able to write a portscanner or anything else - only your imagination sets the limit. No guide is complete without that final piece of source code, so here it is:

```
ainclude snetinet/in.to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  #include asys/types.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #include sunistd, ho-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   void main(int argo, chor "argy) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  #include anetab.for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  #include <sys/socket.hv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #include -stdlib.is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ainclude Asidio.ho
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      #define STOP 1824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            #define START 1
                                                                                                                                                                                                                                                                                                                 victim.sin_addr.s_addr="(long ")(host-sh_addr)
                                                                                                                                                                                                                                                                                                                                              victionsin_family=4F_INET;
                                                                                                                                                                                                                                                                                                                                                                                                              if (thost) exit(printf("Error Locking up hostnore, 'n"))
                                                                                                                                                                                                                                                                                                                                                                                                                                                    host-gethostbyname(orgv[1]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if (argov2) exit(printf("Usage: Xs diastrones\n",orgv[8]));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                printf("PartScad v1.0" - By darknite[Fkurin.met]\a")
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                struct sockoddr_in victim;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   struct hostent Thosts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and support
                                                                                                                                                                                                           for (port=SIAR); port=STOP; port=) [
    victim.sin_port=htons(port);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       printf("For his socket-programming orticle in 1998\n")
                                                                  if (!conrect(s;(struct seckedor ")&victim,sizeof(victim)))
                                                                                                                                                                        s-sockeb(AF_INET, SOCK_STREAM, 8);
if (close(s)) exit(printf("Error closing socket.\n"))
                                                                                                                                     if (se8) exit(printf("Error creating socket.\n"));
                                      printf("part: %t\n",part);
```

As I have said, before, I aim no expert on socket programming nor TCP/IP communication. But I betieve this should be enough for anyone to get started with socket programming and to write some bandy tools. Since I only use Linux, everything in this article has been tested under Linux only, but I believe that it should work fine on all other LIN*X systems too. (You might have noticed that when introducing a new function I have included the man section number for that function - use man as frequently as possible.)

Good luck with your programming.

Blasting Sound

by Slatan

what I can do to exploit this. No sooner had I software on those workstations, so do a search send_sound, which is installed by the defaulted what you need to do is make a list of all the comtions. So I wrote this lattle program to see. East for me to send a sound to each of the workstan't really laggy, I wonder how long it would take asked myself this than it hit mo. This network isstarted spinning, OK, I was thinking, let's see sound. So as soon as I bearned this, the wheels motely log into another computer to send them a (manning Novell on hp's) don't require you to reing I almost paked, I laughed so hard. What this list. You also need the program called puter names hooked into your nerwork. Call it program does is explicit the fact that some Unix Y gram. The first time I used it, it was truly amaz-I have had so much fan with this little pro-

for it. Place it in the same directory along with the sound files you wish to use.

For my first sound I scat a short zep sound. I think I got it from a baser blast somewhere. Oh man, was that funny. It his every computer so fiss - everyone stood up and looked around as the sound went from computer to computer, from now to row: It sounded like the Fourth of July in there.

For my next sound, I felt like bearing some applicase for my effects, so I sent a round of applicase, which turned out to sound like a rock concert inside there. By this time the supervisors were very curious to soo who was interrupting the workday. Helps.

By manipulating the file list I could have the zap sound bounce around the large building. I was in, which was fun too. Be creative - annoy your neighbors and friends?

```
win the same directory and put the tube number or numbers you wish to abject. Ext computer[15] or wholever the other computer's name is also and type in the sound you wish to the organization about 15 about 15 the organization.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #sounds you want to send in the same #directory together. Charge the $40ME/"to where this program is #located" next create a list called "list".
#1/bin/ksh
                                                          #hit akay and bare you blasted them.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              aTo use this program you must have the program send_sound and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #Hacked Cracked and Coded by --+8RED-- aka SLATAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #This program is far blasting sounds at people that annoy you
#Use and abuse!
                                                                                                                                                                                                Program ID : SoundblosteR
Description: This program is used to Blost the heTT out of people
Input Parameters : Lype in the sound have next to organish
                                                                                                                                                                                                                                                                              Output Files
                                                                                                                                                                                                                                                                                                                                  Input Siles
                                                                                                                                                                                                                                                 Link Procedures
                                                                                                                                                                                                                                                                                                                                                                EAST ACTOR
                                                                                                                                     0000
                                                                                                                                                             MODIFICATION LOS
                                                                                                                                        AUCTOR
                                                                                                                                                                                                                                                                           as this program.

contacts a file called USERS
                                                                                                                                                                                                                                                                                                                                  ; Most have a file called list in the same directory
                                                                                                                                                                                                                                                       : None
                                                                                                                                        Description
```

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for node in 'cot list'

\$HOVE/send_sound -server \$node \$1 \$2 \$3 \$4 \$5

echo snode & "date"

TVMMOLMJ 컨텐스(12) -

by skwp

The hacker group known as Cult of the Dead Cow (CdC) recently released a great hacking tool known as Back Orifice, or BO, on August 1, 1998. On August 9th the client code was ported to UNIX. The legitimate purpose of BO is the remote administration of one's machine. BO affects Win95/98 but not NI. The following article explains the uses of BO, how it works, and how to prevent it from attacking you. Much of this information is taken from BO documentation, and resources on the net.

low It Borks

BO consists of two parts, a client and a sorver. You have to install the server on the machine you wish to gain access to. The server is included in the BO installation as begenver.exe. Once run, it self-installs, and then erases itself. After that the server machine will run BO server every time it starts up. The process is not visible in the processes list (crl-all-del). The server exec itself copies itself to c.\text{windows/system as ".exe".}

The server can be configured using boconfigure, which allows you to specify the name of the file (default "exe"), description in registry, port (default 31337), and password (default no password) among other things.

Once the server is installed, you can use bochent.exe (bounix for the unix versions), or bogui exe (graphical) to access the server machine. The client sends encrypted UDP (connecticaless) packets to the server machine in order to communicate.

How To Get It Installed

Here's where our favorite skill, social engeneering, comes in. Make up any kind of bullshit story in order to get the person to run this file. Pretend to be a larner, say it is a new

game, tell them it's a couple of xxx pics in self extracting format. Be original, and don't push them to run the file - this will make prople suspicious. When they run it they may say something like "What the fuck? It disappeared!" This is when you know that you have full access to their machine.

Using the Client

The elient interface has many features. You can read the supplied does. I will discuss some of the more fun features and their uses.

Once you start the client you can type "help" or "?" for assistance on available commands. First of all to connect to a machine you have BO'ed, use "host <ip>".

use netscape; my friend reports weird probchine through a web browser on that port (I machine. Use "httpon "port" to activate the mands (dir, ed, copy, del, etc) to move sonal docs, steal warez. browsing: lock at person's pr0n, read perto upload files. Fun things to do while pient form on the bottom of the page for you Internet Exploiter.) BO includes a convelems accessing BO'ed machines while using http server. Now you can access their mayou can download and upload files to the ily, BO includes a built in http server so that this is awkward and takes a long time. Luckaround on this person's hand drive. However, Now you can use standard DOS com-

Another fon thing to do, which tends to scare the shit out of people, is to display a dialog box on their computer. Use "dialog cleat> ctide>" to make a dialog box pop up on their machine. I have found that in the windows boolient, the dialogs do not come out right if you use quotes. I'm not sure about the linux version as I have not been able to test it. However, using the gui client for windows this bug does not exist. Be careful using this as it lets people know that their

machine is in the process of being owned and they tend to reboot as quickly as possible. If this happens you can use the sweep command to sweep their subnet and find their machine again (in the case of dynamic ip's). You can also use the multimodia "sound" feature to play sounds on their machine. Specify the full path to the sound.

The network commands menu allows you to view their network and share resources. This may prove to be very fun. Share their printer and print out a nice mossage telling them how to remove BO (discussed later).

. You can also have fun with processes. Use "proclist" to list running processes, and "prockill", and "processes, respectively. This is spawn new processes, respectively. This is useful, for example, if you have modified some sort of ini files (like mIRC) and you need them to restart the program and they will probably restart it, thinking it was just a shupid windows bug.

One of the more fun features of BO is keystroke logging. This feature will log all keystrokes in a very convenient manner, including the name of the window where they were typed, into a text file on the person's machine. Use the http server to download/view this file. Another convenient way to get passwords is the "passes" command which lists cached passwords. I have found many unencrypted passwords sitting around in this way, including passwords to Tripod bornepages and PPP accounts.

Finally, you can redirect perts and tie console apps to ports. For example, if this person is running a 31337 WaReZ fTP SeRvEr, you may want to redirect all connections to port 21 to pentagon mil, or whitehouse.gov. I can only think of one example of tying apps to ports which is included in BO, and that is to tie command.com so that you have a DOS shell on their machine. Usually you can just put it on port 23 (default telnet port) which makes it a lot easier. I have found, however, that ac-

cessing their machine in this way is extremely slow for some pesson.

Other features of BO include modifying the registry, capturing screenshots and movies from attached input devices, and using plug-ins (read included plug-in does for info on how to write them), locking up the machine, and rebooting it.

BO and plugins (buttplugs) can be down loaded at:

http://www.cultdeadcow.com/tools/

How To Get Rid Of It

According to the ISS Security Alert Advisory made on August 6, BO installs itself by entering itself into the registry. To stop BO from starting every time the machine boots, edit the key at HKEY_LOCAL_MACHINE/SOFTWARE/Microsoft/Windows/CurrentVersion/RunServices and look for any suspicious program names. The length of the BO exe is close to 124,928 bytes, give or take 30 bytes. Erase this entry, and erase the file itself. If possible, format your hard drive and reinstall all OS's and software, as the use of BO may be part of a larger security breach. The full text of the ISS Advisory can be found at

Microsoft's Response

http://www.iss.net/xforce/alens/advise5.html

"This is not a tool we should take seriously, or our customers should take seriously..." - Edmund Muth of Microsoft, as reported by the New York Times.

Well, Microsoft was wrong. There have been an estimated 65,000 downloads of the BO software package, and I myself have owned over 15 machines using it (I was bored, wanted to look at other people's pron...).

onclusion

Back Orifice is a fun toy, but you must remember backer ethics while using this tool. Do not put something like "Gocho y | format c." in autoexec.bst. The purpose of backing is to learn and create, not to destrey.

Fall 1998



by Armageddon

I told you it might give away what network Buritagnissam saw 1 for any reason - it doesn't matter because if son or another, it could have been et's just say I decided to investigate a network, something net, for one rea-

open (that was a given). was open on the two name servers (duh). Port 21 was open on a few machines. Ports guess what turned up? Basically, port 23 ports 1024. I came back in the morning and scan the subnet and scanned up through 110 and 25 on mail.something.net were was open on almost every machine. Port 53 (http://www.ipswitch.com) on all night to Anyhow, I just left we ping propack

me. I figured it was either a firewall or the on host15.something.net. It established a TCP connection, but then it disconnected The first thing I did was telect to port 23

> Vetworks Probine Remote

ple logging in. Which is pretty stupid. thought if they didn't allow port 23 connecnection. I found that every port but 23 tions they didn't have to worry about peowould let me maintain a TCP connection which I was able to maintain my TCP oonwhat next? I started scanning for ports on ther way, that is a bitch to work around. So machine I tried to telnet to would only al-Talk about lax in security. I figured they low connections if I was a trusted client. Ei-

that door got slammed in my face. sendmail, and I remembered that freebad Anybow, the first thing I always think of is (http), 111 (sumpc), and 513 (remote login) 25 (sendrazil); 53 (dns), 79 (finger), 80 outdated; they must have just kinda forgottelbetted to part 25, and .. it's 8.8.8. Dame. portscan returned ports 7 (echo), 23 (telnet). the one weak link in the chain I needed. A pick on it, because it might have just been was shipped with a vulnerable version. So I ten about it or something. So I decided to was version 2.1.0. That machine was a little luck. So I figured out the freebad machine for any exploit I could find without much me I like freebad). I started looking around chines were also on the network (lucky for work were SunOS 5.5.1. Some freebad ma-Anyhow, most of the machines on the net-So I figure this would be an easy back

server. I believed that it was the secondary So next I looked at port 53, the name

> thing net. All right, I'm in business. ns2.something.net and of course the outof this before); as Lsomething.net and two name servers were (why didn't I think whois something net and found what the name server. So then I decided to do a didn't appear when I did a traceroute to and it appears just after the router. But it traceroute turned up cisco-7% exactly the name server was placed I did a to date. In an attempt to figure out where dated freebod machine was ns2.somewhat I believed was the secondary domain all traceroutes pass through that computer, traceroute to it. Then I ran a traceroute to a name server because its OS wasn't that up believe that to be a firewall because almost traceroute was anyname.semething.net. On the last two computers where I ran a Cisco 7000 reuter (some nice hardware). something.net, I am gonna bet that that is a few other computers. The results each

would be siding you in attacking a com-So I compiled and ran it. I then got myself a exploit came up - talk about my lucky day. the firewall.) So I searched the sploit servers set up outside of the firewall. (It's wall, which meant that they had their name puter). Too bad it was outside the firewall. not give you the source of the exploit; that root shell on the name server. (No, I will archives for a freebed exploit, and a named very typical to put name servers in front of thing, net and it didn't pass through the fire-I then ran a tracereure to hall some-

of a fucking firewall? only good I intagine if they are running NIS name/password if you can't get in because per right away and continued to explore the computer. I started good old John The Riploaded it. Eventually I got it back to my computer, that would be stupid) and downto some computer on the Internet (not my network because what good is a useror NIS+. So I issued the fip command back Yes, of course. The master.passwd but it's So was there anything of any use to me?

> check it out, and I found that the machine anonymous ftp server. So'I decided to while as John The Ripper went to town, day crack that password file. So I waited a long ran the little devil; it bounced me straight nerable to an fip bounce attack! Hell yeah wall! Hell years! was on this system which was inside a fireand night on the password file. Then finally port on the subnet. Now all I had to do was through the anonymous fip and to a telnet So now I went and grabbed that script and was running SunOS 5.5.1, and it was vul-I just took the first legin I got, and boom, Anyhow, on one machine I found an

ploit I had a wide range of exploits to system anywhere and run a local root exshell to get me root. Now that I had passed screwed. Since I always play it safe, I choose from computers. Or, I could just log into another the firewall, I could just use any remote looked for something I could run on the did, kickass, but if it didn't I may have been buffer overflow and get root on any of the So I had to get root. Would su work? If it

telretted over to the freebsd 2.2.1 box, and name/passwords and I was past the firewall could find another freebad machine lying bam, root shell! thing, ran it, waited a few minutes, and fip'd the exploit source over, compiled the so I figured this would be pretty simple. I the /proc filesystem. I got the list of user-2.2.1. This one had a local root exploit in around to screw with and barn! freebad I figured I'd look around and see if I

myself. And I didn't change anything. So around to so many machines, but since needed, I didn't leave any backdoors for only came for one reason and got what I all the necessary logs to hide my punkness and got out. It was rather during to jump cloaking programs to cover my ass. I wiped for what I came for and ran those nifty little should get off soot-free. Anyhow, I searched around the network

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by mution

You may be saying to yourself, "Hack your console? You mean, like my Nintendo64?" If you've never heard of it, yes, you can "hack" your console. This is not your traditional "hacking" as far as getting into systems by cracking passwords, but rather, using your console as it was not meant to be used.

First off, let me start by saying that I think the idea of consoles is great, obviously not as good as computers, but great nonetheless. I also think the games are overpriced (\$60 for a game it costs them \$5 to make? Get real...) and many people agree. There are ways to take your Nintendo64 and turn it into the real ultimate fun machine, especially for you programmers out there.

Back-up Devices

You see, these super little inventions called "back-up devices" have been invented for the Nintendoh4. And they do, much as the name suggests, back-up games. You can take a game, and copy the ROM image and SRAM image to a form of media (varies from each back-up device). This is so that if your carridge is damaged or broken, or you accidentally delete a saved game, you have a ready back-up of such things and don't have to spend money on a new one.

These back-up devices are mainly made in maniland China and are imported to the US or Canada for sale. You may also see them mentioned in the back of Nintendo's game manuals stating that they are illegal and you will be presecuted if you use one. But, make no mistake, the right to back-up your own electronic information is perfectly legal. Reasons why Nintendo still tries to convince people they're illegal are unknown.

Other Uses

Here is where the real logal issues come in. If you buck-up a rented game, or a friend's Nintendo game and keep the ROM, you are committing piracy. This also applies to those of you who may download ROMs over the internet (many FIP and HTTP sites offer this).

However, yes, it is possible (and very easy) to download or back-up ROMs from friends and play them for "free" on such back-up devices. So, basically, if you're willing to live with committing a crime (and you'll probably never get caught), you can buy a back-up device and download every game for the Nintendo64 and play them freely.

Also, and here is the real good part, you can program for the Nintendo64 and play the games you've programmed or upload them to sites on the Internet for others to play. There are many SDKs full of image and object libraries available on the Internet for the Nintendo64. Such devices similar (almost identical) to the back-up devices are available from Nintendo Inc. for up to \$40,000.

Types of Back-up Devices

There are basically three mainstream (if you can call them that) back-up devices. I will go through the names and descriptions one at a time.

Mr. Backup (Z64) - This is the back-up device I own (and probably the most favored). It loads on top of the Nintendo64 in the cartridge slot and has a slot on the side of the device for a cartridge to be inserted. On the right side of the device there is an Iomega Zip drive for inserting Zip disks. And finally on the top of the device there is an LCD display which gives options and shows the ROM contents of the Zip disk.

This device runs off of a 386 SX/40 and has a flashable BIOS chip. It runs off a 5v power supply and also has an option to connect a CD-ROM or SyQuest Sparq drive to the inside, although these have to be powered externally. The Zip drive is connected through regular IDE cables.

Doctor64 (V64) - This is a very good back-up device, although not as versatile as the Z64. It comes with a CD-ROM and leads on the bettern of the Nintendo64 (in the EXT stes). Its BIOS displays onscreen (also flashable), and has options and also shows the ROM contents of the CD. Now, you cannot back-up directly onto the CD, obviously, so you must connect it via Parallel Port to a computer and the ROM image must be transferred to the hard drive. You can then burn ROMs to a CD for use. This device also supports Audio CD play and VCD (Video CD) play. Recently they started supporting MPEG-1.

CD64 - This device is very similar to the V64, it uses a CD-ROM also and has all the options of the V64 (including parallel port). However this does not support audio CD, VCD, or MPEG-1 play. Not necessarily a large disadvantage, but a disadvantage nonetheless. This also loads through the bottom of the Nintendo64.

Where? How Much?

These back-up devices are widely available over the Internet (in fact they're not available much anywhere else). The 7.64 will run you about \$350 and can be ordered at www.264.com. The V64 is about \$280 and can be ordered at www.carlind.com. The CD64 will run you about \$180 and is available at www.cd64.com. There are also NES. Gamelloy, and Super NES back-up devices available which are similar to those above except they take 3.5° floppy disks. They are available along with some other cool console stuff at:

http://surf.to/vividbarrier Additional information about all N64

systems is available at www.dextrose.com. I highly suggest you take a look at this page for more information before you order. You can also talk to many people who own such devices (and sometimes people from the companies above) on IRC. Just go to #n64roms on EFNet.

Final Notes

must also upgrade your RAM. games that range about 128 megabit, you games coming out are up to 256 megabit which supports all games. However, new grade to 32 megabytes of RAM. All systems tems ship with 16 megabytes of RAM equal to 16 megabyte (megabyte is probably loaded from the media onto system RAM RAM. The way the ROM is played it is have this ability and if you wish to program (32 megabyte) which would require an upyour hard drive is measured in) and all systhe term you're more familiar with, it's what 128 megabit. Remember, 128 megabit is N64 which are 64 megabit, 96 megabit, and Ourrently there are three image sizes for the Some additional notes about system

Programming note: you are not limited to 64 megabit, 95 megabit, or 128 megabit. Your program for the N64 can be any size as long as you have enough RAM to support it.

Ordering notes: all the companies listed above are completely logitimate. However, I have heard of shafty companies out there that try to rip you off. I would suggest checking the companies out before you or der from them. I have done business with the companies above and have had no problem with service from them.

Once again I'd like to state that copying games is illegal but backing up is not. I know many people who have bought these systems for the purpose of copying games and it has worked perfectly with every game, but this doesn't make it "legal." It's basically your call whether you want to break the law or not.

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By Phunda Mental

than the Feds' sense of order) was somehow crime was committed, or that anyone (other when there is little or no evidence that any getting placed in bandage against our wills world is getting to be a scary place. We are As I'm sure most of us know by now, the

us. A scary proposition. is us." He can sign digital contracts in our he can also "prove" to our associates that "he that the very same bits that serve us as looks denstand cryptography merely as a way to lock nick, it is no stretch of the imagination to ennames, and even sign digital confessions for forcement officer obtains the keys to our files, also serve us as identification. If a law enaway secrets. The problem with this model is such a key, and this makes sense when we un-Centainly a warrant can be legally obtained for prison for failing to reveal her encryption key. vision a case in which a person is held in as those endured by Bernie S, and Kevin Mit-With the latest examples of injustice, such

will keep itself away from our keys is probaply hoping against hope that the government for a way to pull one over on Joe Officer. Sim-It is for these reasons that I began looking

and looking at our programs. They would see sure is applied by coforcement to reveal a pleted works of Shakespeare. A third key to his wife, the other might reveal the comwhere if Joe Officer deptands the key to our words that law enforcement isn't watching us the dooryption is done in a black box; in other that great though because this assumes that meaningful text. I don't find this idea to be be able to invent keys on the fly, when presusually carries the added stipulation that user usually called deniable encryption. This term might give us our secret documents. This is many keys. One key might reveal a love letter caphoriest file, we can choose to supply one or What we would like to have is a system

us invent a key for a given plaintext.

text simply appears out of that. No specialized plest method of dentability. we consider this method, let's look at the sunalibi to fall back on beforehand. But before ianed" encryption system, that is, we set up an junk chaff. I call this type of system a "coshsis, in the terms we will use, this data is just imately he said to exist to frustrate cryptanaly. sets, but any additional data in there can legitprobably have a means to extract other data to take pisce. The enemy would know that we calculations specifically for deniability need apply a key with a given algorithm, the plainable. In this way, law enforcement sees us cide beforehand what plaintexts will be avail-Instead of this, I find it preferable to do-

with a one-time pad. An OTP has the property plaintext and be done with it? for, but in this case why not just memorize the and there that we can remember the pad (key) leagth. This might be OK for a few bytes here ever, our key also needs to be N bytes in possible message of length N from ciphertoxt that a key can be constructed to reveal any (also of length N). To achieve this feat, how-The most obvious way to achieve this is

Officer can simply confiscate all of the pads. Even if the pads are encrypted with PGP, he our secret document. just demands the key to the pads instead of to not only is this troublescene to work with, for We can store all of the pads on disk, but

a method of data confidentiality that he calls gorithm, recently introduced a small paper on known for his work on the RSA public key al-One-time parts just aren't going to cut it. Enter Ron Raveit. Rivest, most widely

how this is done - if the material in this article transmitted in the clear. See Rivest's paper for dustiality without encryption; the plaintext is proposed it as a method of achieving confi-[RIV98] and is a really interesting idea. Rivest winnewing and chaffing. The basic w/c method is discussed in

> stuff should fall right into line with you. understanding of the basis of w/o, and this is not clear, read Rivest's paper to get a clear For our purposes, what we want to look at

of data from another. Authenrication Codes) to separate one strand is mirely the idea of using MACs (Message

but that is academic. hash function into a block eigher and vice metric cipher (C). Of course, we can turn any tools: a strong bash function (H) and a symgoal of deniable encryption is to use two verse, so we could really do it with one tool What we are going to do to achieve our

a little slippery, but stick with mo): gers hashed with HO like so (the notation gots We need a passphrase from the user, which

II(user_passphrase) → k

notes concatenation. $\Pi(user_passphrase+k) \rightarrow k'$ where + do

cryption, RC4 is the easiest to implement and right next to RC4 (for our byte by byte ensince HMAC is available in good crypto libs the tools are right there for your use HMAC. stream cipher with just beavy MACing), so all block ciphers offer no obvious advantages to a ordinary hash functions will suffice, however like HMAC. For our uses berd, I believe that something like SBA-1 or MD5, but it would be preferable to use a complete MAC system It should be noted here that HO may be

But lot's got back to the algorithm:

denotes concatenation. atso increment a sequence number (sqn). "+" For every byte of plaintext that we get, we will and k' is the key that we will use for MACing. k is the key that we will use for our cipher,

We grab a byte of plaintext (P)

 Encrypt: C(P,k) → M #encrypt P with k yielding M

and the sequence number together MAC: B(M+k¹+sqn) → M¹ Whash M, k¹

4. Output M+M

If we have more bytes, gote 1.

as before, D() denotes the inverse of C(). affer we get the user's key and set up k and k' Grab a block of data, and separate out M To decrypt this staff, we do the following

 If R^{*} and M^{*} match, decrypt M, D(M,k) → P think MI should be and call it RI

H(M+k+i sgn) → R'#rocalculate what we

If we have more bytes, goto 1.

ers. An example is in order. allows us to energpt two or more files using was just encrypted with a different key. This wouldn't Mi and Ri match? Because Mi was cryption, imagine what would happen if Ri the diphertext of each file as chalf for the oth user supplied in the decryption process. That created with a key different from what the move on. Rivest cells this winnowing. Why process. We simply diseard that packet and packet may very well be meaningful data, it and M' did not match in the decryption To see how this lets us form deniable on

k!=Z. We start our sequence number at 1. are k=8, K=1 and the keys for B are k=Y and send; the bytes "A" and "B." The keys for A Lot's define two messages that we want to

C() do the following: Let's suppose that our functions HO and

key & (= "S") yields "G" C("A",S) = G + M - A"A", encoypted with

ber, yielding 2. This is M text byte above with k' and the sequence pure H("GTT") = "2" = M" + a hash the cipher

the first byte of the second message: So our first message packet is "G2" - en to

key k (= "Y") yields "O" $C(-B^{-}, Y) = 0$ # "B", encrypted with

second message, use 1 for sqn H("BZ1") = "8" = M" # first byte of the

and interpolated); G2O8 Ciphertext output (both messages merged

k'=T then we will accept G as a valid byte (M) can just pass this byte through DO which will of our message we have some keys that the crypted O and therefore obtained B then we would have stripped out A and the plied the other set of keys (k-Y and k'-Z) yield the plain text, in our case "A." If we supmessage's byte leaving only the first. Now we user supplied. If the user supplied k=S and ject O: we have just stripped out the second and our calculated R! will match) and we re-When we attempt to decrypt the first block

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It is easy to see how this can be used against Jee Officer: if he wants A we hand him the keys to B, if he wants B we hand him the keys to A.

To round out the method and make it all hold up, we insert chaf packets (just some random bytes that won't be accepted by the MACing) at random intervals. If servinized, an attacker will have no idea whether or not the packet in question is a bogus chaf packet or a meaningful packet. There is no obvious analytical way for an attacker to show whether more meaningful data exists in the file or if the remains are just random bytes. The most "straightforward" way of attacking this system is to dictionary attack the user passphrase, as always. Failing this, one must attack the hash function and the eigher. This gets difficult very quickly.

biased, this bias may be able to be used to to the hash function. If the hash function is so from the PRNG and hashing this into each the changes in those bits are also minimal hash, the sequence number is incremented, so good amount of new bits getting turned over cally strong PRNG and grabbing 128 bits or passphrase through multiple bashes and using this possibility. from a socure PRNG limits helps to alleviate be used here. All of this may help an analyst plaintext byte. Known plaintext statistics can The remaining bits are just those 8 bits for the predict how the digest bits change in the next MAC. This ensures that there is always a this additional data to seed a cryptographibreaking a MAC. Putting 128 new bits to obtain more data from the user's Another modification to this basic system

But you still have to watch your passphrase. And if you are going to put a PRNG into the implementation, it is better to get k and k' in a different manner. If RO is the

PRNG and H() is a hash function then we construct k and k' by seeding R() with H(user_passphrase) and grab to 128 bit (or 256, or whatever you like) blocks from R() for use as k and k'. The prior method of getting k and k' seems secure, but for the few K of RAM needed for a nice PRNG, it seems silly not to use it.

Implementing programs to do this sort of deniable encryption is a rather trivial matter. Source code to strong hash algorithms and good streams ciphers is widely available, and simple to use.

ment. Maybe encrypt a few articles from press purpose of giving up to law enforceto get your wits together and give the right as it requires more keys to be remembered with an external program. I advise against this should even need one, but such is the state that why you have that eighertext, not that you let, and will give you a better althi regarding seems more likely to get encrypted than Ham-Phrack and a few pern pictures. Such material documents of a "sensitive" nature for the exgive the wrong key. It is also preferable to add key. Accidents happen - you don't want to forcement to reveal a key you may not be able and when under actual pressure from law enwinnowing tools and let the crypto be done we live in. Be prepared. It is tempting to just implement the basic

Shouts go to Sryth and Wipebut for good hacks, lots of boor, and really sick looking code while under the influence.

References and related material:

[RIV98] Chaffing and Witmowing: Confidentiality without Encryption; Ronald L. Rivest, http://theory.les.mit.edu/~rivest/chaffing.txt [CAN97] Deniable Encryption, Ran Canotti, Cynthia Dwork, Moni Noir, Rafait Ostrowsky, ftp://theory.les.mit.edu/pub/teryptcl/96-02rps

THE BACKYARD PHREAKER

by D-Resz

For those of you who live in the sububbs or shall sowns, did you ever worder, "Harm, there must be more controlling my phone than the 5"x10"x3" box on the outside of my house."? Well, right you are However, the box controlling your (and all the other people in your hoods) phones is not behind locked doors. It is usually on an accessible street, not more than a few feet from the outh Look for the big teleo box, it usually ship has the teleo name on it and sticks up a good four feet from the ground. This is the neighborhood teleo box.

"Now, one would think, "This box which centricis all telecommunication in the area must be under lock and key, right?" Wrong. Your local rector thinks your lines should have no more protection than an add-shaped bolt. This can be undone with a special wrench, or with needle-nose plers. Unless you happen to look a tot like a teleo servicemen, breaking into one of these boxes might look a little suspicious, so don't be a damn fool. So much of hacking phreaking is just common sense. A medicum of discrettness can save you hours of dealing with local police officers.

Once the bux is open (it was already unlocked.) just opened it out of euriosity, officer) you will feel right at home. The same kind of setup you have at home (black wire/hed wire, sometimes a jack) is present here, forty-fold. These are all your neighbors? phone connections. Unplug one of those jacks, poof, there goes loe Blow's line. Connect your handset to a pair of terminals, and you have access to this phone line. Child's play.

This system is easy to phreak, but easier to destroy. Should one be so motivated, one could, say, rip out all the wires and run. This would cause have among your neighbors, and certainly make you far less popular with the locals. So, for the sake of people who didn't do anything to you, please don't go randomly ruining service for a whole district because you can.

Hawever, people tend to get a little nervous when their phones suddenly go dead. And, if you are caught, the redial on your handset can be used against you. So, for the backyard/suburban phreaker, here is a list of handy tools you can use is a "safety net," to ensure Officer Ericadly

doesn't suddenly come around the corner

 Line in use light - They sell these at Radio Shack for \$12.00. This is a little box with a light on it - when the light is on, the line is in use. Before utilizing a random line, check yourself with this pocket-sized insurance device. Makes a great gift. (Humon)

2. Tone dialer without redial or memory is Should you be caught after the fact, won't you feel like a dumbshit if the last number called on the line you phresked is the number that pops up when "redial" is pressed on your phone? A lone dialer prevents all this. Since the phone only remembers the numbers pressed on the phone key pad, you'd be strait to do all your dialing with a tone dialer, sans redial or memory settings. Although laws are so vague that you can now practically be arrested for having a phone and alligator clips, it's better for you if they can't power any thing. Dial direct - too had, so sad, you're on your own.

3. Common sense - OK, for all you non-geniuses, first and foremost - Doe Yafiel lines connected to you is any way. That means don't dial your house, your favorite RBS, your meet, your pidfilend, your favorite RBS, your meet, your phone. You've been warned, they do keep phone. You've been warned, they do keep records. Secondly, clean up after yourself. Wearing lates, glove's would be a good idea, but not having business eards also helps out. In conclusion, you weren't then, and you should do everything in your power to make it seem that way thing in your power to make it seem that way. That means closing the box after you're done "Holy shit, where are rey car keys?" is simply no

Keep your head about you, don't do anything stupid, and watch your back, and you can have bours of fone-phun in your gated community. Act like a moran and get your ass thrown in the metal clink. Happy phreaking. Don't tell anyone I told you so.

I do not, in any way, encourage criminal haharior, nor do I promote destruction of talephone company property. I also do not condone or encourage the activities listed above, nor have I or anyone. I know even performed the next mennimed above, Please: Don't find with people.

http://www.2600.com

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expanding caller id storage

tra charges for having caller [D! Hmmm better spent on something else. Like the expany wants for a 99-call box just might be memory, but the \$59.95 your phone com-Caller ID. You want a better box with more free in the mail when you signed up for tiny little 25-call memory Caller-ID box for The telephone company sent you this

Easy... just hack it!

selecting the memory capacity for a given mine. Just read the procedure and I think you will catch on to CIDCO's method of Don't worry if yours is different than comer of the sticker like this: "J4.1" compartment, at the extreme lower left hardware. You can find the PC board revision fetter on the sticker inside the battery which they proudly display when they called CIDCO model PA. These units use first wake up. The difference is in the the same software, CAI version 4.1. The two units I'm reviewing are both

Assembly 553, Revision "E" Assembled 1997

epoxy to avoid any spillover. Her job was the nearby pads ("D" and "B") with red tory slave who soldered the thing dabbed pecially easy to spot because the poor faccalls, CAI Version 4.1." This jumper is esthe device should wake up and display "99 a sharp exacte knife or soldering tren and ity is 25 calls. Open the solder jumper with (She's picking up cans in your alley as you later designed out of the process, however board from the faceplate and LCD screen. Yay! When jumper "C" is closed, the capacside. You don't have to unscrew the PC the battery side of the PC board on the left the memory capacity jumpers are on

> Assembly 553, Revision "J" Assembled 1998

a cheap soldering iron! sharp exacto knife is more useful here than right of the big black blob of chip cooxy, tween the jacks). The jumper is just to the PC board from the faceplate in order to pair of pads, marked "C", and is very bard unused capacitor pad. A very careful and look for the jumper (4 screws, one in beto spot. First, you will have to unscrew the above the C 12 capacitor. It looks like an The memory capacity jumper is a single

mid-range units.... closed when set to 25 call capacity. Open it ing. Apparently not many folks bought the (and most program/test) options are missup, and you have 99. The other capacity Just like the rev. "E" this jumper is

to go out and order a test unit now, but any sent on the revision "E," so it might be hard those program/test pads for? What could we find out by using them? They are preolder unit should work.... That reminds me - what the hell are

order from top lett: The Revision "E" pads are labeled, in

(enable?)

(test?) (Joad?)

(Capacity jumper)

(Capacity jumper for 25 calls)

(Capacity Jumper)

(Capacity jumper) (reser?)

sion "I" but they are labeled: There are some similar pads on the revi-

(jumper, open)

(load?)

(Capacity jumper for 25 calls)

Anyone for some exploration? I have not tried out anything on these

(TIRKS). In this documentation I will be exrecords of circuits, trunks, and equipment for the mon Language is presently being used to prepare Record and Details (WORD) documents. Common Language is used in prepared Work Order by all Bell Client Companies (BCC). This Com-Location Identification (CLLI) Codes. plaining the construction of Common Language Trunks Integrated Records Keeping System Common Language was developed for use

Eurity (2000) (character position 9-11) Building (XX or N%) (character position 7-8) building. They are made up as follows: of 11 alphanumeries that identify the telephone non-building locations. These codes are made up force or administrative group within the build graphic area. They specify a particular work far telephone buildings within a given geo Stare (ACO (character postition 5-6) Place (2000) (character position (-4) ing. The CLLI codes are also used to identify the The CLUI Codes are used to identify particular

Non-Building Location (CONNN) (character (Switching or Non-Switching)

Customer Location (NXNNN) (character position 7-11)

X = A b h a, N = Namericposition 2-11)

Code The Place Code is a 4 character alphapal locality such as a town, city, or community for Denver, Colorado. macmonic. An example of one would be DNVR ping reaters might also be referred to as a Place Military locations, local names, or major shop-The Place Code is considered to be a munici-

emeting a Province of Canada Code or a Country would be CO for Colorado. Code if applicable. An example of one of these senting a particular state. Provision is made for The State Code is a two character code repre-

Building Code

The Building Code identifies the particular

goniofilato socio utio

ing may be represented by a two character alpha code, or two digit numeric code. An example then it means that the building is an Independent ter to the code happens to be an X, such as XL such, then it is by chance, I swear. If the first letto me. If is is a building, like a CO in Ohio or would be XG or S6. That example means nothing building within the geographic area. The build Telco Location.

actors. An example of this would be FG4. ment, work group, person, or job function which They are made up of alpha and/or numeric charbroad categories, switching and non-switching ing and termination. Entities are assigned to two is directly related to message and/or data switch-An Entity Code specifies any unit or equip-

mnemonic code. These are the abbreviations for of telephone equipment other than a building be dropped and a CLLI consisting of a Non-The Non Building Code is 8 5 character lar group within a building, the Entity Code may position Seven. Building Location will indicate a site or position When it isn't eccessary to specify a particu-

B = International Boundary Crossing Point

 $\mathcal{E} = D(d|Point)$

 $J = J_{\text{BHCRions}}$

M = Manholes

P = Poles

Q = Radio Locations

S = 7500 Stations

X = Independent Company Non-Building Location

N = Castomer Locations

U = Miscellaneous Non-Building Locations

places position I through 6. The Radio Code completes the code. STLTEO is Spelles-Earth Orbit This re-

Customer Location

stallation, a sustainer located switched service design work or a location required for Trunk forecasting and network, a customer located Centres installation, A Oustomer Location may be a military in-

knowledge. Remember, all kňowledge is useful. I hope this will help you in your quest for

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RESNET

Sylk

The RESNET (RIISidence hall NETwork) is all a single entity, it is a cookie-cutter approach to networking dome rocers at universities. The people responsible at each campus basically get together on a self-help listeery, tell success and horner stories, and sort of come up with a plan for what they want to do and how they want to do it. It is an environment that is full of possibilities for exploration.

To learn why it is so disorganized, you have to understand the politics. RESNET isn't a unified network at all and there are a lot of egos and posturing involved. Universities tend to do their own taing and have a hard time bolding onto good people (who can leave and get a lot more money elsewhere in infantry once they get good). In addition, the people who pay for the equipment (housing) are usually a separate entity from the university itself, both in mentality (resistant) and firancing. The financing issue creates most of the disorganization, along with the initial power-plays annothed when RESNET flast gets installed.

If the (experienced) network people had their way, things would be looked down preny tight. That crest money but it is the bousing group's money. This is usually the first power struggle since the bousing people want something that is cheap and inexpensive and the networking poople want something that is secure and (more) expensive. After much inlighting, this basically boils down to having a network infrastructure that can be made secure, but ourreadly isn't. If you're in a RESNET that wasn't recently established, chances are excellent that cost would have probabled some of the mote source solutions (switched vs. shared network ports, for example).

The RESNET goal is to make the user use DHCP to configure their IP and force them to register themselves on a web page. When someone sends off fan-mail to the president, the poople responsible want to be able to say that they've

made a best effort to be able to hold their RESNET subsambles sociountable (someone's head on a platter). One important aspect is that they want to totally automate it as much as possible so they don't have to have that much manpower to provide reasonable service. Backedly, they want to be able to hunt you down if they find you doing something you shouldn't, they don't want you to set up a local server, and they don't want to give you any reasonable expectation of a service they may want to take away later (even if they can't really enforce it at that point in time).

tween the dorms and the backbone with a rachostname. They can do very little (DHCP does dom-few:many iP secup. would mean a high-performance NAT device bewant to spend the messy to enforce it, which apps appearing for win98 and macs. They don't about it but they should probably be with server connections. Most of them aren't too worried some way to say that you can't have incoming would probably write up an AUP that would find someone setting up another Yahoo! in their dorm ing a service of convenience. They don't want most of that by default) and pertend they're offer. intervals, and you get a generic unpersonalized good *NEX hackers are scarce), is randomly asroom. If they could think of a good reason, they assign you a new cac at semotimes unpredictable signs you an IP address and can be configured to want you to have something they understand and operating systems (if they have to help you, they for them. It is slightly biased against non-desktop Using DHCP has a number of good points

DHCP also provides the side-effect that they get your othernet address from your NIC (which is supposed to be a unique number) fied to an IP address for a time interval, and when you register it gets tied to the "resident." They only want one device/person, both for socially (typically unused) and cost (they want you to buy their service; if someone sets up a hub in their noom and networks the general area, they deat't get the money). They would also like to

make people responsible for their port, so what comes through their port is their fault.

species, setting up a fake root DNS sorver, and tion page for anything it isn't serving. server, where apache drops you into the registraany remate HTTP page gots directed to the adding a few virtual hosts on a *NIX box so that That is often accomplished by sabotaging their registration server if they haven't signed up their web browser, and find thenselves aimed at it so your average person will boot up, bring up point to the registration server. The trick is to get dresses that got surved to unregistered NICs DNS servers, routers, whatever. The dynamic adend up with a static entry that points to working crippled IP addresses. If you're registered, you DJJCP server that will serve origited and non-The usual satup is to have a slightly modified

Know thy enerty! Many of the RESNET sites are using a slightly modified version of one package. Visit http://www.rit.edu/~mrcsys/chep and look.

you're not being a squesky wheel. to hugh down, but it is probably a low priority of by then. The administrator list a list of addresses you alone for 40 years. You ought to be graduated quietly assign the vectimal new address and beave one's address, the server will work around you 2.06 lpH). Compact are that if you grab some. is about to assign is in use. If it is, it mades it sions have is to check and see if an IP address it mon. One of the newer features that lake verchesp like Linux and using the ISC DHCP dae-RESNET solutions are rutality on something TCF/IP control panel open. Most of the ing one of your friends when they have then box to whatever works, usually by shoulder-surfrity, they can't crawl onto your desktop and force DHCR Other than by written policy and obseru-"abandoned" until 2038/01/19 (at least for dhepyou to use DHCP. You can staticly configure you Problem (for them) #1: You don't have to use

If the network folks had their way, you'd be connected to a VLAN-ready but that can assign addresses dynamically that had lock-not security features. Plug in with the wrong NIC or more than one NIC, you get drapped and your port locked down (perhaps requiring haman intervention to the). Hased on what NIC you use, you get put into a cripoled VLAN or a working VLAN (depending on if you're registered). This is a much more secure scenario but it requires seene

additional help for the network folks. In particular, they have to inverface with whatever protocol the switch is using to assign a particular NIC to a particular VLAN (if their switch can do it at all another equipment cost issue). Those are often proposition protocols, with the vendor warding to sell you their security solution. The housing folks tend to nix that extra expense since nebody has proven that their little resident turnates are criminals yet. If nebody has abused it, chances are that they won't have this type of security in place yet.

Problem (for them) #2: If you're using *NEX on a PC, can get a valid IP address once with DHCP, hard-code it and set up NAT, you can book up a boach of machines behind yours with nobody being the wiser. They resy try to change it from time to time, but with the way the DHCP spec is written you are perfortly well within your (DRCP processed) rights to try to use the same IP address all the way up and your DHCP class expices. I don't know what the ISC DHCP client does on a *NIX box if it has to change the IP address mid-session, but you can probably live up to the letter of almost all their rules without any problems.

see. You everage fellow student probably isn't us-Swords pooles suffer and see what there is to ing. If you're not on a switched post, grab your money, so older installations are probably lackwon't pay for that. They used to cost a fol of switched ports cost money and some people ARP, other machines via JPX SAP, etc.). Those formation (IP addresses on that segment via although they may reveal interesting bits of the most nothing of interest is contained in them poets for performance, they're giving them to tered or not), it is time to see what you can see thing that isn't a broadcast or multicast, and alport will pretty much stop you from sceing 8.5%you for anti-exvestropping scourity. A switched The networking guys aren't giving you switched When you have a working connection (regis

If you're on a shared bub, you should be able to see all the local traffic from your neighbors. If it doesn't have a bridged uplink port (unlikely), then you might be able to see the RESNET backbone traffic as well (oil your neighbors). Any size that doesn't offer switched ports is at risk for all kinds of spitting/insertion attacks.

One of the banchs of RESNET is that you're typically on the campus and each have high speed

quickly, people aren't going to want it for the added expense or the bottleneck very quickly. If they don't put a firewall in place like disk space, tends to get filled to capacity people start hyping about all the cool things wanted to keep their options open, but they're low-performance finewalls working in tandem eacy to doing for the students. Bandwidth, much probably not going to have a fifter in place when aren't going to like. The network folks will have you're going to add cost which the housing fells: If you get a high-performance firewall or a lot of switched-10 connections trying to go through it. \$100 out like a sore thamb when you have 500+ rity. Any firewall or other bottleneck is going to LAN access can cause some problems for secu-Unlike slow WAN situations, high-speed

You may think these ison-decisions are obvious, but paper-pushers are a different breed, especially when their microey is involved. They seem perfectly happy to be reactive and fix a problem after they get hit. Up-front cost is everything, and long-term savings don't mean a whole lot when you're fiving year-to-year on a budget. The obvious analogy of standing on the traintrack and getting off before or after the train goes by is totally lost on them.

What tools do they have to track you down? Potentially lots. It really depends on the hard-ware they're using, their competence, and the teets they have available to them. The easiest bet of information they'll have is your IP address, since anyone who noticed will log that these days. If it is on the other side of a router, your

MAC will be unavailable. If you registered with DHCP, they'll quickly track you down and rurn off your port. They may be able to blacklist your NIC so you can't use it in any port. That would be inconvenient.

Depending on their notates strup, they'll typically know what notweek segment you're no (host routes and source routes don't work too well in the modern LAN, but you nover know). In your average RESNET, those tend to start out big (a building) and narrow down as required. If you haven't left a permanent rocord (registered) or they're not strict about what MACs are used on any given port, they premy much have to each you real-tune by looking at ARP entries on the nearest router and bridging tables on the switches (to find our what port a MAC address is behind).

One of the security options some switches have is the ability to look a port to one MAC address. If you're backing with a fixed MAC on a looked port, the hunt is going to be pretty short. In your favor are convenience (public access areas, that they can't look to one MAC) and laziness (if they have to unlook a port every time it looks, some human is going to be bored out of their mind). A few late night calls saying your port got looked for no good reason might constitute an RA that it is more trouble than it is worth.

wheel then they can get away with a lot.

Rotters are a small problem since they are passive learners and will hold onto ARP addresses long after they're out of use (10) minutes). Switches are a little casion since they tend to clear their MAC tables when the port loses link. Do the dirty doed and drop the link. They're going to have a bast time finding out what port the MAC was behind.

Some SNMP-ready switches can send a "TRAP" to an SNMP management station when a port comes up and down. This is usually disabled by default since it generates a lot of traffic and potifications reanagers cormally don't care about. Some of the clover RESNET sites look for the link-up TRAP and then start probing for MAC addresses periodically on that port. This is a pretty good proactive way of doing it. The ways they might probe are pretty custom since it usually requires someone fairly competent to set it up, so a little inside knowledge will work wooders. If they only probe once at some interval after the link comes up, you only have to wait it out and then send your traffic. If they

probe periodically, you have to use your unregistered MAC in hetween probes and drop the link before the next probe (clearing the MAC table entries for your port).

If you can find someone foolish enough to leave some IP-relaying software turned on, by all means bounce it off their PC and use their MAC. The average fool worth the able to track you down and probably won't notice until someone tracks him down.

Switches raske it very hard for network administrators to sniff your traffic even if they wanted to. Reware that some switches do have the espablish to echo everything on one poin our another where a swiffer can be anathed. If you can take over a switch, you could use that to your advantage. Beware that some switches also have authoritication traps and some keep tack of various failed autempts, so someone might notice and wonder what is going on.

If the network folks got their wish and you're doing MAC-based VLANs, you're probably bosed. A good one will make the port when it sees a foreign MAC trying to pass traffic. They're also a life more likely to log and timestamp MAC-to-pert associations, leaving an unwented trail of breadcrumbs to your door.

If you're not on a switch, things are going to be much harder on anybody trying to track you down, although they have different options. The bridge tables only say which side of the bridge the MAC is on. Usually you have repeated ports on multiples of 12 (often 24, depending on the age of the bardware) and a given MAC might be behind any one of them. They'd have to go door to door or eliminate everyone else and eatch you in the act. If they stick that own suffice out there, they'll be able to see everyone's traffic. Depending on your network folks, that may or may not be permitted. Many of them have some kind of privacy policy, although they can pull all the steps out if you're being a serious pain in the better.

If you end up behind a layer-4 switch, you have all kinds of possibilities. Layer-4 switches are usually made by vendors that wanted to get into the routing hype (and markup) but couldn't make it work. They usually only work for IP, but they make router-like decisions based on what IP address you're using. Where they usually fail is with broadcasts and the domain they're supposed to be in You can get a lot of information leaking

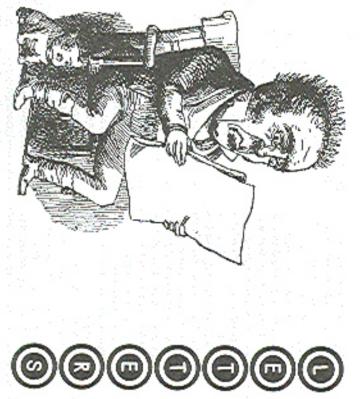
ir unreg- from notwork to network that you wouldn't get in drep the a properly routed environment. DHCP causes the MAC many vendors to have fits, so it is debatable if you will find them in a RESNET environment.

thinking and planning. Doing virtual IP addresses on a *NIX box so you might exploit some fundamental flaws in their have multiple IPs artected to a single MAC higher leyers and well look on MACs but not IPs window. Most switches seen't aware of the use someone cise's), that deterrent goes out the as a significant deterrent. If you make one up (or ing on you having to speed \$50 to get a new one MAC without tracking you down, they're countage and typical behavior); If they look our a make it too convenient to break what they conon make you use an operating system that doesn't sider "natural laws" (but are instead morely avecsons they'd like you to use Windows or MACs is essy to make draconian decisions (and use rity at some point in the future). One of the rea-MAC-based VLANs and other MAC-based secuyou to DHCP and a registered MAC is to make it the reasons the RESNET folks want to restrict MACs and/or IPs on the same machine. Once of One last thing to consider is using multiple

Most NICs can handle several different MAC addresses—easily—without bothering the CPU (mostly for multicast support). Given the right device driver, you might be able to add a randomly generated MAC to your card (so it with drong its it as itself and process its traffic) and bind your "special" applications to it. Anyhody looking at your satup will see nothing unusual (no extra hubs, etc.). They'd probably have to track you down real-time and catch you in the

It would tweak the most minds if you use a firewall-type setup for your abducted address and only allow traffic on the ports that you are using. If seeneone is trying to track you down, they may try to ping you (EMP) or use some other well-known ports. This may be the first thing they do if they're trying to decide if they can each you red-handed online, rather than trying to pick up stale breadenumbs. If they telned to your assumed IP address and it tells them your PC's name in a banner line you're not going to feel too dever. If it totally filters and ignores traffic you're not expecting, it should make it nearly impossible for them to make you reveal yourself beyond your MAC entry(s) in the bridge table.

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Warning

scattles a lot of the time. So keep your eyes open civily in the Manhattan area. These cops are also using as calling eards. Most cards are marked (the ones they decays, or they were being tailed by cops. ATM's as well thends have gotten arrested in a period of 1.5 months phones new banks, buildings, and molts. Beware! Espegive decays). It happens mostly near large hanks of pay der surfang, they were doing it to undercover cope, hinted each at a separate event, it turns out, as they were shoul-Attention fellow phenoles and backers. Four of me

turning. We're not interested in your little commercing plain and simple fraud and have mothing at all to do with institute that the kind of charts you're tenebled in use part religious stought or two. One of these might be ple reas Perhaps you ishould keep your brails open to an in-Lucy aka Baudewiser

Store Section

Dear 2600;

book..." Surely you are, I hope, referring to the recent them down because they don't like the pictures in a rights against neighbothood censors who try to shut "We hack them (Barnes & Noble) completely in their On page 5 of your 15:1 asspect reads, and I quote

> emotionally healthy life rights of an underdeveloped, helpless child to live an freedom of rights so I hope you are recognizing the sick individuals. You and your magazine stand for died in from of a camera for the amasement of a few doubt these children pictured would consent (if they 2000 were old enough to protest!) being touched and forax you would predecine to be used, abused, mixender, child paraography protests of flames & Noble, Just and exploited as "Generation X punks," I

by hading a commutant, somehow consince people that not observity. Of course, states like allebums and 13-p. Radiant Identition by Jook Storges which depict eadily: two pools: Also of Madeetale by David Manufley and what they say is true. Go find the branks and reach your mensee fail to make a distinction between the two and American Family Aspectation) and It's targeted against conservative groups (Focus on the Family and the The continuously comes as a result of a campaign by that Baress & Noble would ever self child paracycaphy told without checking the facts first. We strongly doubt his family have people buy him whatever they're

Dear 2600:

semilar input about Office Max Best Buy in 15:1, I've decided to give a little of my own After reading the articles that were written about

Like Best Boy, the climate controls for the store are

danbroom buth es and then the in-store computer will change everylocated out of the state and sent to each store's comput-

cally follow the same pattern Passwords for Office Max in store computers opi-

login: store

the store number found on any business card or receipt Password: Ourn, connert, or creaxion where not is

эобмаге

every Security. sals located throughout the store. Prices, label descrip-Economy, the store computers are restored from backup bons, how many labels to print, stock, UPC's, etc. Just about anything can be changed by those terms-

store's data line used for potting climate instructions usually loosed on a tray under the phone that slides out same. 39 gives you the interested 2-digit extensions are This includes the lines used to verify credit cards and the Almost all the telephone jacks at Office Max are labeled The telephones at Office Max are almost always the

(EMS). Mbute was not enemyly correct with his piece which would apply to most of the larger stores that use "Even Bener Still," regaiding the EMS at Best Buy. have had experience with Euergy Management Systems

within the stones. philities and secundarily for ecoverience and effect

MESTATE UNC 1863 yiu'n phone connection. Their home computer has every customer's EMS PC specifications in its file for ple who would reprogram the PC to its original paramesomething was wrong, they would call the service peoit up because as soon as someone in the store realized It wouldn't create a disaster of he did attempt to fuck

play with it instead of his pudendum. trankly, I think that if Mbura had a brain to would

This is regarding Greyhard's letter on Babbage's

. I'm not nor have ever been a hacken/phreak but I

These systems are used primarily to reduce costs of

ande, et al. bours, outside temperatures, unusual darkness outmore in advance adjusting for daylight savings, store failures and are usually programmed for a year or sensing devices used to modulate lighting and HVAC and is totally self-directing except for various local units. They have battery back-ups in case of power The EMS is a Programmable Computer, or PC

they are doing. The usual programming and mainte-Switches when necessary, and hopefully they know what open the door to the EMS PC and openine override some special occasion lineal management can also occasionally by some securtars who wants to intpress nance is done by qualified technicians or engineers, or puter but are programmed remotely, or adjusted for The units are not controlled from a remote offer-

ACCEPN

Dear 7600:

cally Babbage's employment = meximum wage + free nothing illegal about it, as long as you delete it. Basiback. They also be you check out all gaming consoles Babbage's and they do let employees shock out any soft and games (i.e., Physiation, etc.) They obtim there is ware in the store. They then reseal it when you bring it employee software checkout policy (15.2). I worked for

fiell by

Dear 2600;

mg the cost. tell you that it is also true that these stores do repuckage sollable condition. As farm a Babbage's employee, I can turned and work back to corporate, who ends up absorb-Online and StarCraft), but these products are usually reproduct uses a unique od-key, mostly games like Ultims though this does occasionally pose a problem (when the items that are checked out or returned as defective. Alstore, as long as it is returned within 48 hours and in a yes, it is true that Babbage's (Software, Exc.) employee are authorized to check out basically anything in the In response to Greyhard's letter in your but issue

Z

that's bullshir and most people who work at Bubbage's my stars) state that the software may not be copied, and work there for the "benefits," I know my manager does whatever manager said "you can't copy CD's anyway." people are so anal about things that aren't wrapped. To dition that we need to shrink-wrap it anyway, one most most software supped to us is sent in such a poor condoing so is grounds for termination. To tell the truth software are at fault as the check-out terms (at least in In terms of highlity, the employees who copy this

Dear 2600:

me to just make a copy of the first disk. But on more than one operation my dighted manager told some software would write the user's name to the disk weren't supposed to there out 3.5 inch disks because and shrink wrap the box to look just like new. We At that time we would take the product to the back room scalled on our computers after they were brought back weren't allowed to copy disks or leave the software in better job of selling the product. Policy sested that we Barnes & Noble) allowed employees to take software and Software Dic. were owned by our good thends as closed in 'St. Company policy (at the time Bubbagos home for a week and "get to know at" so we could do a Firgo, North Dakota and worked there up until the store member, i started work at a Software Etc. in 194 in It has been company policy for as long as I can re-

impulse rate. They believed these people were taking during their shifts on the in-store demo computers: per back for a full refund. What they really needed to do time, copying the settingre and then bringing the proding track of customers who bought software back at an was watch the employees. They even copied software advantage of the return policy that was its place of the Software the seemed to get its jettics off of keep-

Fall 1998

Dear 2609:

Just writing to let y'all know about the letter from Grayhare in issue 152. Yez, this is true. I used to know someone who warked for Electronics Bout itque, who used to do the same thing Employees were allowed to take games home to "test." That way they could tell potential existences how the game was. Of course, you were supposed to delete the game when you were done. Incidentally, 18 be far more worried about getting a virus than being "discioled on by store employees."

Pixelated!

Dear 2690;

I just read the letter from your 15/2 issue from Greyhare about Softwore Do, employees being able to take bottle gomes and bring them, back to sell at full price. I would just like to confirm. I was best friends with a Software Etc. manager for a white. He could take our pame bottle for two week periods, providing that they had enough expice left at the store for the customers. When he recurred them, they would shrinkwarp the plastic back around the box and sell it as "new." Software Etc and Electronics Bourique still have a "O day no questions asked" return policy anyway, so there is no more to broome an employee to cake advantage of the "free-base" program. As for as I know that's returned.

entropic

Well, it didn't take long for our readers to confirm
this practice, which scene to be widely brown in the
tethnate statutes, but further proof of the hypocrasy
the software police call reading.

Dear 2600

Think you for publishing the letter to the other called "Bankstore Manapalies" (152), where it eleven recommends the website www.bockbelleraunian organization is a Barnes & Noble employee working ut my local college bookstore who has legally posted sifermation in his break morn regarding employees" rights which has been continuously righed down by his managers, including latters to the editor like this in your magazine provides important entered support to those poor workers who have to live with frijisting energydry. Thank you so much for your help.

Dear 2600

I really don't understand the fascination with our (Barnes & Noble) databases, but I can tell your you've in for a long, dull time messing around with them. Believe me, as an insider, I know.

One thing you guys should know there was no corporate-wide memo regarding you guys at any level. I'm in a such a position that, were there one, 1'd know. I' think you spoke to a couple of quatretic-looking-for-pthrill part-timens when you wrifted this phantom memo Perhaps more informed and maddal sources would be better utilized in the future.

My fellow booksellers and I aware the local 26(9) expectantly, and we would never jute strip the copies for pethy revenge. We get a kick out of the favorization with set, and the smooth of "crap" you're field (and believe) from "employees." The whole "33 schoon" password? A dod All the "X1, X2" staff? Available on any receipt when you purchase a zine, paged, codies, or food. And as the as getting into credit our numbers going through the garbage would be harser and easier by the way, we don't use the same passwords or codes on all the kepped doors, extent. But, if you want a look at our break moons or juniorist closet, ask for me, I'll show you. It's no big deal.

Thanks for sit the first And, by the way: doesn't Borders use computers, too?

Task about streeting us to the competitor.

Help Needed

Dear 2509:

I was wondering if you could set dime the hiblingraphy for the untitle "A Brief History of Postal Hacking" from 15:1. I am very interested in researching this field more. Thanks.

West Calumbia, SC

Fast go in year local past office and ask for more reformation. If they say they don't know what you're saking alread, it means come back in one hour when the supervisor isn't around and ask again. You may have so ask a few inner before you advance so the next level.

Identity Problems

Dear 2690:

I am a newbie backer. I sm 14. I am also demale. On 18C, in the backers channels, I concludely get pocked on. They call me the "Female Lament" I have done nothing to them to make them think this, I don't sit there and bring about myself and my backs take they do. They are just senior pieces of side who think they rule the world of computers. They pick on me because I are greaters, And because I am female. May I ask, what it is to bad about a question? In school, they tail you to ask questions, then you get shunned for it and solled a hame on the neft This is not fain, is there anything I can do to make them see that because I'ms younger, less informed, and female they have no right to pick on me?

ŝ

SaaWeetle

Since you made no less than four reference to your pender, we happed that you make this less a pair of journ (destrict, since it obviously in enuming your proferent. On the net, o'r nor essential information are way, fou can be whereir you want and start over or many times or you need to writh you find something that works out.

Mitnick Feedback

Dear 2660

About Kevin Mittack being out off from technology, it just its Yight. I mean, what can someout do with a legicip and no modern! Nothing! He should be free to getter the evaluation when he wants in. They must have something they don't want leaked to the public or they sould so let him look at the evidence, b) give him of util, or c) give him bed. Kreping someone for so long without a trail is inhumant and a violation of his construction if girls! her wanted in he heard.

Philgh

Dear 2600;

I have put my "Free Kevia" sticker to good use \$0.000 cars a day will see it while they wait at this net light-invergess. How about a "Best Placement of Tree Kevin' Sticken" contest?

Pracetably.

Gend idea, Send ut photos

Dear 2600:

The comment you put inside the front more from Mile Godwin (141) versus the comment in the course of 151 just shows those were people who don't blo backets inside how fucked up the povernment's case against Milack is.

Columbus, OH

We've found this to be true just about everywhere we've spread the word to the public.

Detar 26065

I is it off, allow me to exend my compliments as always on an excellent, informative magnatine. Have mad
it eligiously for several years any and have both focus
amound at the worth, of information I discovered and
appalled at the ournages that go on right under corments. The Kervin Minisch ournage is the reason I im
writing this tense beckness you will find my check for
\$100. For the Kervin Minisch Legal Defense Fund.
Kesin's pitigar has been the most astronishing traventy of
"justice" I've over board of and I'd like to stop m and do
my jost to draw the like in send. If we all sit back and do
to bothing when things like this happen, we are just giving
the givernization of permission to note of our
foredoms a little of a time.

We may also be pleased to hear that my with, a college instructor, is time a regarder reader of your magnetic
blow in that, she insisted that I contribute more among
than I had originally pleaned of Every quarter your
temperate would come in and I would devour it matters
to glowing the injustices that were lappening to people
the Kovin Munch and Berrie S, and everteably the
taken me just what the deal was I let her read Kevin's
angular she was simply summed that such a thing could
be allowed to happen in America. From that day on, she
was a welcomer reader. We are both during our part to

Dear 2600:

Thanks from us and from Kenn.

Solon,OH

S., and 2600 to general

educate everyone who will listen about Keem, Bernie

Exer been reading and enjoying 2606 for a number of years and I have to say you've starting to sound an author for the the povernments you've so aftaid of 1 keep hearing a loc of "poor up, that feed foll medicing a loc of "poor up, that feed foll medicing a loc of "poor up, that feed foll medicing a loc of "poor up, that feed foll medicing a loc of "poor up, that feed for day know was the good gays". Gove me a break! I've been handering since before there was a distriction between hackers, and crackers, and yes the stupid medic, with the help of the shapid crackers, and yes the stupid medic, with the help of the shapid crackers, have lost the distriction between the low.

But not even you can deny that hothers (meant in the modit series) pole is serious and denymous risk to Dustiness, government, and yes individuals. Now magazine is becoming more a political agency than a "fine-special, free flow of information magazine," While we're touching on this (the political agency of the mag), the information year he specially about "poor transcent" Kevin Matthick is just as distincted as anyone else's. I notice you seem to almost always members the farthat hy had all that credit eard information, ut, I know, ge's a good gay, he'd never use it for mill purposes. Undainly imprisoned, no trial, um, can you say pleaded goally, buy, and girls? On is that not being mentioned for a rea-

The fact of the notion is, Kevin sucked as a bother He got locky and he was supid and he got engine (that's how the game is played, if you don't like the rules, don't play. The good backers are the ones you sever hose about

Fixelly, do we really care what the media or general public clinks? Your attempts to "aducate" people about the righterors cause of the looking community is going to be real successful as long as there are Keynt Retaileds out there. Do you not see where people might get contract when on one page your now "rag" mag is saying that do when on one page your now "rag" mag is saying their forms, embrance up, we're the good guys, or, And on the most page you're saying "How to Hack your TSP" and "Tips On Generating Sike ID." both clearly the Retailing choice of your average law abilding citizen.

This magazine, one magazine, is supposed to be about the first, open, and homest exchange of information and sideax net a political scapbon. Let's get back to what you do best and inform, educate, and entertain your readers. If we warred sermons on the good works of Kervin Mithiek, we'd go to church.

(I suspect you've sever heard of me)

With the tester heard of you to that each many you be often if the "good backets." And we're not each going to get this the whole "canaber" faintes that these around but it what by going one the things you estited webs to a contact by going one the things you estited which is a contact by going white or whatever cannot those the contact and the product of the second of card file repositions, it was used to wife Krith in a record action only. The file itself had been froming around the next to

over though it would have been an early may to get free ford paragraph of the story on his capture, the New souff Kente is not a thirf. But by mentioning this in the York These made him look lifte a common primited that not one of those numbers was ever used by box. Kente had a cupy and farther proof of this is the fact means to over if sweet a string readly extinted. These is well up with capital. We don't know anythody who wouldn't to get. Handrich, perhaps theosands, of people wound there is easy to was found in Kerte 3 directory. It was easy Such The reported on its existency a full six mounts beages yet Nearest had replaced to even actinomically after

60 you subscribe to that mandates this? or who from and by Alli people? What possible agenda share people who sheat ours and large amounts of maney thee phones valid. For this he described more prison time swelfter like copyles exception files and matter a few that all of the enough charges against him are for ab-Kerre was trygered - why, we can only speculate - and opposite? It doesn't take psock (poest/gation to see that his purois officer when phone neutrals have proven the runned auf eat to be a finise of all? For not reporting to place? For accordating with a lineau falor who leter the question remains, why was Karsin righting in the fort name may have sprighed your moral standards but it eround the country. Taking out phone service in his own safety for, so he thought) with boly the FBI change him accomplished to a make real their more excusable. The wouldn't have done very much for Kenin's foundoes. So was fuerally the only way Kerin could communicate he the same or steeling something rangible that all than tradited to his home start of California and he long ago stor of ceilular MPA that were used so make Saint Kerin plead guilty in North Carolina to possess Entitled serving that sentences). You may consider this to acoustionized phone calls. This allowed him to be ex-At for pleasing smill thing he had both facts one-

Patricial your amount nesterned? and has what "government" are you work to uni-

the strekers and a picoto of the tation (on the arm) Frue Kevin ratioe. Soon you wall be petting my order for (the car might but it doesn't pun yet). I'm also getting a nonly a point job so it's gening a Free Kevin custom job many bumper stickers as I can get. My motorcycle spired me to do a few things. I started a collection for as times such as the case of Kovin. Seeing the web site in who are willing to stick up for each other in desperate formation. Secondly I like to see that there are those First I would like to thank 2600 for their years of its

optitions. The one shing we all have in common is the

you Whate an oundated arm? You do realize that one day Keere will be free and God Of Die

are hadded community which, fluidly, surprises me. found guilty." I'm surprised that these people sean't out-As I was searching on usenet, I found several seri-keyin posts, some of which suggested that he "not until he is You know, Kevin doesn't have the support of the en-

> story the entire six miles. Well, that's my five conta certeel, I'll support him 100 percent until he's relescont. about the Anti-Kevin opinion. As far as Kevin's constory while these two someof-bitches are taking the Kevan? Well, he has yet to make a single picket off this could be classified as the equivalent of tacketters moor money off of this one incident. These two begands now, since the movie is coming out, sound to make for and Markoff, both who have written books on the subject, have made bundteds of thousands in royalties and reged at how much be has been exploited. Shimomura

thorities sucreed to controlling his life the way they demonstrates, we still have much to do right over. want after his imprisonment. But, as the next letter apt) He iii need our support well after that two of the as-

is a barsh penalty for it. commit a crime, you do it with the knowledge that there him beal. Bottom line. Kevis Montick is a felon who ran three years without trial, they have a reason not to given faud. White I agree, you should not be in prison for he was containing 25 counts of computer and wire up enough to stop breaking the law? Kevin Micrick street and 5, committed trime after trime, never wising he isn't being mested fairly? How "fair" should some from the law, and he is getting what he asked for if you not be so nice, be might have thought about that when get more time. While the conditions of his release may must really enjoy jail, seeing as he keeps doing things to one he trusted if they have: I. violated perode, 2, resisted grand their auto, should you still "Proc Kevits" because kgal, albeit a white collecturing. If it was homicide, or he is still a criminal. He got caught doing something itthrow his see in jail. While he may not be treated fairly reached at understanding: Kevin Mittiek is Those of us at the Chicago area 2690 meeting have

titled to go around raping it represents an entiry group with all kinds of backgrounds who hold all kinds of do that! Our maetings are comprised of different people of people. We organize the mortage and we don't over ever stupied operators you copee up with but you're not exbut it made one thing client. You're extitled to what-

long since then saved as has the time sentenced for except for some bridged egos) with mad entires that de-I 4 Month as always on that charge alone. That time has serve real penaltics. He volution of systemized release of presenting really is and how no danage was caused consider how workhoe the hypermation by was accused charges against Kesta fand they are totaled when you eur extremely debasable and/or minor yet de received a ettil) än i mongé for jeu. So mhat mill it be, sen jeurs? want Keste so be imprisoned for? Four years appurjaar naak no paar searenne. So dare much dens da you Positie of a trial by Kedlig Kenn guilty: Great Now pewire soyley. You've already served as the nose and (wearly) Life? You meet to eguate the nather straight distincto share liftirmativa to an open expirationate With that out of the NO, take a good look at what

> lithers this entitlede will get ut in enother see pours? prisons that are heing belief there you ringged to think he know about. You need to believe that every critical riosity about technology he was entit he wasn't altoward the point? Do you sentetow projet from all of the new pater backing. Maybe even every Japonation, Bur what is Every instance of red boxing, every restance of conshould comy use a penalty, but a "banch" penalty pathly could have, and singly trying to satisfy the cu honest life, working real Jobs, not stealing when be conat 80pt to take which was 20ptly one beam of the sound long sentences for rather minor violations. He was only way he could be sent back to his home state of Call play free and managing to do it by leading a relatively fagilities, every day you retenuin free to a critice. What you ing and simplicitic may of looking at it. When you're a deriver charged with as you say, resisting arrays sky for already nerved the nestence). So we have increality gornia and by the time he finally got sentenced he had months) (Agreeing to pleast to there charges was the personale cellular MINs back in 1985 (eight addinoral contenting crime after crime," that is a very settlead-

Church People

(I say "we" rather locally since I'm more of a hacker being portrayed to dataless needs, juvenile delinquents, sympathicut; my skills are not worthy of the less.) and victious entitinals when that's not what we are at all would have them do unto you." Mackets get a bust rep-Bible tractes is that you should "do unso others as you pult, etc.) which is an unwarranted slam. One thing the pointed by your choice of words (twisted researing, backed at the Sammer 1998 issue! But I was disap-I about flipped when I saw my church's home page

perlagram event id as the FOC web page. Not oool, are cool people? They go to your site and see a stratio straight. But now how can I convince them that hackers files serectypes about backets, I my to set them bition? Lister, when people in my church buy into the willing to break the law to perpentate this misrepresen a mastepresentation about what my church is all about (from someone who is not even a member), and you're fairly maligned by the media. But you post on your xite enant and not risch to judgment about other groups un-So I would expect the hacker community to be tol-

the public image of the backer community church members who might otherwise be part of the ness. But when 2660 provides him a stump in the name growing public support base to free Kevin and improve of "free speech," the downside as that it offends 92,000+ he wants to express his opinion about it, that's his base I'm surry Justin had a bod time at my church, and if

Afficialment, and who distructs big poveniment. Any of Schools for their children, who has accumulated surwho frequently attends Bible studies; who has a high belief in the Bible and the Second Coming of Christ, vival foods and has a strong belief in the Second level of financial giving to a Christian cause, who home Panet Reno says: "A cultist is one who has a strong

> Whoo, 60 Minuter Interview, 626/94) ation that qualified for government interference." (June) more than one [of these] would thave us to book at this these may qualify (a person so a ordinal) but certainly person as a Cireat, and his family as being in a risk giru

So, fellow cultim, do we hang tegether or do we

TOWN PARKET

grande Santa Reso is use the major of the of fillendly others if you're looking to via arguments like your church in may the hall out. And finally, a word day died it is no near title! So, if you don't like it, stop land by displaying the handed ride it is new 10 in his complish much shad, for the record, we've breaking no on filmer i upprov an my past, apas sums met yeller visiting it, just as you would aphilise people who doe!) from grups at you've been doing with see, now lawyers modifield above of lifetones. If we were to start dailed metr jidu in the name person who hacked your site. They's sig letter? It was it us. And our asking "buisted resource You also seem to believe that the person who creeceed page) that others see it that may, head by difference we have reported the face that here and on our web we've never referred to pour organization or a cult had also for what you're saying. You fail to realter that ing "At the conclusion your church was reaching and is Universation? Who was it who self-out a threaten

Dear 2500)

REGREE CHOISE TO REGRET ABOUT YOUR ACTIONS. DOA SEALE BIT DOA HELM CIVIL BON SE SINS ABOUT BACKING BUT NOT LIKE THIS, TIME TO LIKE HACKING AND AUL THE PROGRAMMES ARE NOTHING YOU HAVE TO KNOW THAT JE-GENT BUT WITHOUT THE COMPUTERS YOU AND JESUS YOU THINK THAT YOU ARE INTIGLE. HOME BAGE WHICH SPEAKS ABOUT PEACE ANSWERDVERY STUPID YOU HACKED A SAVI HOW STUPID CAN BE A JUMAN BEEING LNYS B OGGSSAND DOK

2000

And houses is going to be filled with paint

Generic Feedback

information on "how to piss people off" and "how to make an asshale of yourself." Brianeos most centainly phins that you violated your own Code of Dhies by publishing ". a mean spriled article" wated provides does not need any instruction on how to make an age hole of himself My letter is in response to "Briances," who com-

his right to freedom of expensions, but he wants you to people can form their own opinions. Behavior exercised a medium where information is fietely discussed and lish letters like his, it shows you are not affeid to provide I say that you are true to your crede. When you pub-

fall 1998

our secoss in isformation. we have. The more choices we have, the more freedom who want to exercise control over our lives always limit we have. That is why social institutions and individuals The more information we have, the more choices

you. This is how the game is played. If you choose to only mine. You are free to use your information to fack say this. In a free society I parmor control your serious wise you may end up the fucker. with me and I am free to use my information to stop formation from your magazine, or any other source, play, be sure you know what you are getting into, other-As for those who try to "fack with people" using in

Shippie the Ageless Hippie

power and knowledge is up to them. against our code to contact a potential chest as Tuxodo up litigation he would eventually find himself in front of If Tunedo's died had among his "values" the desire to sin pearance of impropriety," a catch-all provision that state, it always includes the command to "avoid the ap-Although the ethical code varies slightly from state to dia attention, you are more likely to hear about had at don't Just av it's the "bod" backers who got all the mefor attorneys that some attorneys follow and others assumption." Just as there as a "hacker ethic" that some of saying in response to other letters, "you made a mislawsuit by saying "It's nice to know your dad [a lawyer] Like hackers, how one chooses to use their newfound and exam don't change people, they empower them school and a bar exam behind them. Those these years ets. Lawyers are just people with three years of his rights of arthomeys in a way they seen't limited for oth type of soliciting is prohibited, limiting the free speech has to inform them of the possibility of a lawseit. This his local attempy disciplinary board. In fact, it would be would include within it stirring up groundless hitgation. face fines, suspension, or in serious cases disbarment bound to follow their ethical code, and these who don't hackers in court. Unlike hackers, lawyers are legally There are lawyers who back and bowyers who defend ing it to others, whatever their vecation or avecation these assumptions about you, and you should avoid do ncy he is unethical. You don't like it when people make Mask's father, you have assumed that since he's an afterply this tende. Since I doubt you actually know Tuxodo torneys than the many hard working bonest people who hackers fellow and others don't, there are ethical rules has passed his values along to you." As you are so fond section you respond to "Taxado Mask's" suggestion of a In your Spring '98 issue on page 32 of the letters

mend you visit Tilt Magazine at http://welcome.to/tilt. where you'll find true stories of anomeys, the good, bad for more on anomeys who don't suck, I room-

been reading for years and hope to do so for many more. and burnt out. Thanks for putting our a great rice; I've

In this case, the writer made a point of saying their

ing them along. Our remark could then be considered averywhere. If Dad does have good values on such our comment is aimed at one person, not all lawyers Jarcasik. shings, he doesn't reem to have gotten around to passgot their (dea, the values parent down were poor and streaten to ase to meane. Obviously, if that's where they facher was a lawyer and that we should go out and

Dear 2509:

that your pricies are top quality. I especially liked through Real Audio. I would first like to thank you for 200700 the bullstic free information that you give and I think Since then I have also been listening to Off The Hook as a result was able to purchase 2600 for the first time sort of people the hacking community really needs to "Hacking The Virtual Pet" (14-4) - it was most amusing? I find Off The Hook to be equally interesting. You are the I mostify visited America (I am from the UK) and

guess they could be anywhere.

So what does it do? Well, after you're in you're

if the upper right corners (K-Murt, Wai-Mart), but I but on the back of the machine. I've penerally seen them chine is usually the stone's ID number which you can get Great, you sok, but now what? Well, through a limbe in-

by social engineering. Even better, sometimes it's write yestigation, I've learned that the password for the mato enter the Create-A-Card management program up a computerized keypad that asks you for a password genera (assuming there's no posture there). This brings types of cards, teach the lower right hand corner of the

squarechin

Kevit "card? Just a Chought ...

Wesich

and change the words and formats of the existing eards changing the layout of a card. You could actually go in options range from printing a test card to my favorite shown a meno that looks like 6 VB command buttons

The possibilities are endless! How about a "Free

This is the top ment to the management subsystem. The

Dear 2680:

their personal library. It's like they get mad because guys deserve it. All these super-effic hacking gods who the great into you pays provide. I think everyone should magazine. I'll bet they're not so duma minetial to use n't dare subscribe to such a commercially controlled exists, and so that makes 2600 a sollout and they would someone besides them happens to know that your may mag, but it sooms to the that these motors' definition of may be one of the mindless learnings who stads your what's my opinion worth to such superior hackers? I aellout is about as stupid as anything I've over heard, but sense - if you don't like it, don't read it! Calling 2600 a call you guys selfouts should exercise some common so wrong for people to make some money? I think you to be the least bit commercial. And so what if it is? Is it The ever mod and never found anything about your mug nannabe, but I like reading it. I've enjoyed every issue your mag. Maybe reading 2660 makes me a lamerone of the mindless lemmings who shell out miltions for every new issue. I guess i'm ignorant of the fact that I'm just don't notice the sons of commercialism packed into is to corporate America and became trendy. Maybe I why are you having financial problems? salt in your wounds, but if you guys are such sellouts, have the right to their opinion, but come on Not to pour "selling out" is the mag3 popularity extending beyond I've been reading your stag for a while now and I guess must have missed the big switch when you gays gave Lam so fucking sick of this "selling out" bullshe

projects. вист имама по на ста чом мом по верхита па по при For the regard, our financial problems have pretty

Dear 2690;

which commented on a way to hack the Create-A-Card I'm writing in response to Luke's letter in 15:2

It was fun. I will mention "Free Kevin" again and then close sensiny (the borner, the homos), one on her nack two on the right side of her face, and one on her carring Attorney General Janet Reno after a few seconds of piece. Knowing that, I found four "Kevin's" hidden on he hides his daughter's name. Nins, theo-ghout his ber below his name. The number is the amount of times trace Al Hirschfeld, who signs all his work with a mustnumber 4 below: a tribute to New York Times five tilesspe, I neceed the cover actist signed "Free Kevin" with a Your magazine makes me happy. On your litted is-

AS MORRY 24 Thanks for noticing but we canniged its serves it up sometime. There are at feast five Keelt's in shere that Korn

down by a truly competent administrator (or even a (152), it struck me that there are a variety of ways admins should be aware of, based on the uticle in guesing us well. Some of the items both explorers and tems I'm sure there are a variety of methods I'm miss moderately competent one tweete of the problem). Since someone doing us the author described could be tracked (Im not involved in administering or securing NT sys-As I was reading "A Newbig Guide to NT 4.0"

changing this name, though it's easy to do if you have Administrator access. logged for connections. No mention was made 1) NT has a workstation name, which I believe is

changeable, at least not without significant digging into parts of the system not often explored except by kernel 2) NT systems have unique identifiers that are not

> network messaging since duplicating them was one of hackers. These identifiers are used in some inter-system plicate NT systems. the problems with using early versions of Ghost to du-

chine is running the promo screens for the different to back the software. Here's how I do it: While the easof taying to get in the machine if it's out of paper to try

machines. What was described was an interesting way

addresses can be manually released. cally) dynamically assigned DECP-assigned IP a't changed in close to a year, despite being (theoretitracking even easier. My office system's IP address has on, the DHCP lease may never expire - that would make same IP address will be used. If the system is usually used for backing before its DECP lease has expired, the and if a personally identifiable system (like a hytop) is Most college networks are probably using DHC?

number. Even if they haven't, they may be able to kee volve releasing DHCP leases. DHCP server, defeating attempts at anonymity that inwhich IP address is assigned to which MAC at the ware address) and associated it with the logtop's seriol sight possibility that they've logged the MAC (hard 6) If the college provided the hytop's NIC, there's a

small liberal arts college campuses. average college student probably doesn't know enough termine what subnetwork someone is on and thereby hack into systems are relatively rare, particularly on can be changed. People technically literate enough to about the system he's on to realize that the system name knewn to be technically capable - remember that your down to a single public room with only one person narrow down their physical location, possibly even someone with access to the switches may be able to de-Ethernet "subnets" with switches connecting them, S) If the campus network concerts of multiple small

they can be used to locate a person while the break-ins hands of an administrator who's exact of such break-ins evidence of someone breaking into a system, in the While mast of these are unlikely to initially turn up

imply anonymity at the hardware feeel. ple, and that anonymity at the OS level doesn't always OS like Windows (any of them) means that your machines are both identifiable and not used by many per-So, just as a ceminder - keep in mind that using a PC Alba M

tony at least as visible as 2600. (Sorry, but I could than backer, I can promise you that if 2600 is having trouble getting displayed in backstonesselsewhere, it's others just don't know where to gut them. Even lousy "digest size" SF magazines still survive (barely) and do display anything that sells - except magazines like not because of any bias roward backing (a displayer will much. When you have the capital to spend, as an expercover art doesn't seem to be able to hurt a large former gest-size magazines; some are sure they don't sell man. Bookstones and other displayers hate to display di that have made it since the 70% have all been large for get displayed (here and there), the new SF magazines ence fiction field knows this problem well. While three Sundy Logar) but because of its "digest size." The sci-Dear 2600: intentity 1600 in large formed and make Hocker Other Just bought my first edgy of 2600 and, writer richer

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bandy ned the word "Hacker" on the Summer 98 cover Mad a Free 900 Number Tats Christmas," Or don't Hazitors: Then do a Casaro and splash article beasers SF magazine did) e.g., Janes Reno's Magazine Nev that owns you (right) to purchase a celeb's name (as one and it's other sold ma.) Better yet, get the conglomerate surces your large, fell-bodied onver. "How to Give your

Clarifications

query in the command line with the Alt snew_with causing a system to latch up is a halfmack of poor backasserbant's choosing, and a squeaky clean hard drive. ing the victim with a c't's prompt, a volume label of the mooship, one might opt to answer the volume label prompts the user for more than one response. Since prompts for a volume tabel. This sort of thing happens the system to hong up when the DOS format withty ECHOY FORMATIC: AQUANTOO will experte have ome_rector's so train. For example, the command line when the corpor from ECHO is piped to a program that methods described. The above command line will cause drive. There are, however, a few things to note about the Q/U > NUL would suffice to format his "friend's" hard protection, the command line ECHO YI FORMAT Co ing a BBS With DOS," in 15.1. In the absence of virus This letter was inspired by Socioe8's unicle "Hack-

-hattribute utility. Be ourserious of the amount of space that will be sion" message. The better choice for interregating such usually yield little more than so "Incorrect DOS Verahead of time, it may also be of some benefit to give it a required for the new file. If the output file is created a file system would be to use the DIRVS officerame out? have migrated to Windows95/98, the tree command will Another thing to note is that since most PC estern

that he's been violated is privates. Use your imaginalook on a system administrator's face who just realized to an Eather print or public service announcement. The Once security has been broken, the same methods can have to leave a wake of smoking bard drives and haves. tion, learn all that you can, and show a little class. just as easily be used to change a stock MS vgalogo sys way for us to hone our craft; these little attacks don't all One has thing. Mischief has traditionally been the

Cathode Ray

assume everyone who's reading your stuff is highened plude those of us with ovaries. Hey, Mes-Eakepil, don't cause of its extragen content. As someone whose body in 14.4, 18 like to say that it was very useful afformaens milely tradition from section for your readers inmaturally produces estagen (read; ht. I'm a weman!), in interesting, nowever, that ginseng was hated as crap bedoers beger then, say, your average 12 oz. sodu. It was tion, especially since coffeine usually makes me ill in In response to Met-Endugh's article on stimulants

by the idea of growing breasts. Some of us already have

Dear 2600:

used a goto gatement instead of a while() loop. Weah parse petable) on page 44 of 152 (not to meticen be page at secast() about the middle of the page. Some of the code got chomped off the end of the

major security problem, secure a writes to a file in Amp tem files effectively bringing the system to a halk write the file. This could prose destruction of vital sysand when secured is started the program would overyear could engite a symlink from any file to lead petab (http://pstab) and blindly follows syminks: A normal The article "secure of by keeper (1912) contained a

care, claims to provide should book to the ulimit func-Gon provided by their operating system. Anyone who wishes to have the "security" that so-

Dear 2600:

Ested DNS Numbers. All of the numbers listed in Misnot a small lame ass fown in Missouri. Do I got a free Louis is acoually a small, lame-ass town in Mississippi. gueri (MO), are actually in Mississippi (MS). Bay St. and 9 of 15.1, there was a big mistake in the part that In the article "More on Military Phonos" on page 8

aCh89Va

you ire aware what state you live in. No, but you get our franks and the pride of knowing

Dear 2600;

vidual who either give the information or who threw it (15:1) and noticing the words stuck together, I hope that fless to change such above said, then the group or indiscer Recognizen) software program (Osmičaju Prounter per character, such as from an OCR (Optical Charthe message and the museage was printed exactly thanetc... If this procedure was taken from the originalor of the ji character in lower take and the d in upper case. two spaces in between, group O gening jame flor with separated by a space, group C getting Issue. Doe with came from who ever a descrimination process such as a common security technique to find out what message you don't know already, to stick words trapition is a so they were not the same as the original message. If you guys (yes, including Seral) reparsed the word styles Tendridge), and the software did not have any mode while group Bigets the memo with the words Jane Dec A gots the means with the words JaneDoe stack together the original letter would be shown. For example, group public news broadcast or newspaper quotation where After reading Secur's found memo "Not a Secret"

> talking to, or as being investigated even further. This in the wrong "memory hole" has either probably had a MACON WORLD the moles in a high security situation concerning inforwhat similar but different enough to identify the post. The key is to make the same letter appear some groces, to off indentations, to began paragraphs, to tystyle and lochnique vary from words stick, to extra line 'mole." Also, this exhinque is performed to weed our

WE'LL AND CO SOLL

1ZRJXXX

your Spring issue: laneous lameness in Friedo's "C'Gl Flaws" article in I had to write in to point out the errors and miscal-

gines do you know that aren't server sade applications? processed on higher machine. How many search enlarge detabases to the olicar so that they can be the server-side. It isn't gractical or desirable to transmit CGI is not inharmly "flowed" because it runs on 2. In the fake is script, what's "copy"? We're on

fect other than requiring extra typing UNDX, not DOS - my op... 3 What are all the eath "/"s for? Those have no et.

the systems uses is it or something. The sorps should arguments??? Your case will be discovered greaty fast if 1.18 840 A. Why does the take is script run the real is with so

has nothing to do with CGI! System) from your users. Besides, this old trick really the first commandment of protecting yourself (and your and it doesn't come has be as very stupid indeed. This is this and tuscibia. If the systelmin has "I in his \$PATH asymmetry in his partit it would have to come before 3. The fake is wen't be executed if the synulmin has

change isomeotherbinary to do whatever you want. Sometimary cell someothe bissey? That way you can you pull the said gag. Not very flexible. Why not have 6. Příoda seys to make somehinary perfoct before

to have the system preserve the effective UID. CNIXes you need to use something like "ethinish p. UNIXes, but not with csh - try sit or lish. On some SUID does indeed work on scripts on many/most

the Water - and very district. and / thosis. This will no doubt blow the system out or BISE you're wiping out school reigns, itselfineld conf gaining problem. All of the ">'s should be ">>'s! Other. same have was much more on-track, though there's one The "Setting Up Unix Trapdoors" article in the

stange them to the new values. And don't call the exethem into an expectable so the backer can't entity just indecous so the hacker won't know to monkey with it Gulable compare suid consessums - make it something berefore, it's best to compare checksums. Hardcode will have found and modified if he's worth his salt backup copies of the said programs which the backet diff is also unreliable as you'd need to be diffing against 6306 is not very helpful - timestamps are trivial to take programs with a modification time later than a certain Also, the hint to system admins to search for sear

Dear 2600:

doors" has some errors in there that are very misleading nothen@senate.og/y article "setting up unix tog-

right, and I believe him. Just a reminder to your editors and authors I guess that ">" is very different than "oo". etd conf will reptace those files as we all should know Protocod" > Actobaryious and the associated time in in And you don't want to do that. Using an ingread will of I contacted the author and he says he typed things The lines soho "asp 2600 top # Neswork Secure,

out everwriting them extinely. course, append those lines to their respective files with This was a relative that occurred an our and during

the lighted process and probably one of the worst we We're samp for any problems it may have curoed скиМ ваче таке бинісабу, и чис в сотрым отог

Dear 2660:

commutes", its incorrect about five things. Vandal's article in 15th titled "ANI 2 - the adventure

ANI is not ANAC. There is a difference, while. Over a year now, actually. So they become been popping up" as vandal suggested. On the same note, 1) ANACs using ANI If have been in existence for a

are phanatic tettern, "Charlie" is not a Greek letter (as read off by the dead 800-555 ANAC) The call letters used are not Greek letters; they

and then only on ANACs that are owned by MCI The ANI II digits are read out before the number

read the dama thing first.) code, it's every possible ANI II code (He should have 4) The list he provides is not every known ANI II

thgpts for an operator assisted cell are 34. Check for from that phone. Just for the massed, the current ANI II UATA. Or maybe you can't call directory assistance line has a restriction that prevents it from dealing out of it tells you that your ANI II digits are 67. Maybe than in you are not on their PBX). You call up the ANAC, and other example: you see in a condo rented by a resort (as remanenal calling block, or a 900 or 0700 block. Ap-0,7.9,1,4,8.3,4,9,8.7,6". Perhaps that ODCOT bas at its all of its information and then says 'ANI number and COCOT and you dell 1-800-487-9240. Records back on that the the prevents calling. For example, you are call. The 07 denotes that there is some type of matricities 5) The 07 code does not signify an operator assisted

other pay phone number to my collection, and when the this out, coincidentally. I called up an ANAC to add an providers are unaware of this. Today (7/17) I was at a debugh, it seems as if some of the countrywide COCOT easy days of ripping goy phones off by letting 1-800. USC in Connecticut) is still doing this! Remember the SNET (Southern New England Telephone, the originate stopped giving you a dial tone after one side hangs up. COCOT that was manufactured by Elemel when I found LOAN-YES hang up? It's still possible there! Oddly On a different note, while many of the RBOCs have

letters continued on page 48

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BLOCKBUSTER VIDEO

by Hiemlich VonScootertraus the 53rd-

The corporate invasion is well underway now. By the time you read this, Viacorn will have stuck a Blockbuster store within earshet of your house. A boon for many, a curse for many as well. Having worked at a franchise that was bought out by the corporation, I can honestly say that things at the local video store are going to get worse before they get befor. Corporate stores are now the norm as no franchises are being sold anymore. This ain't good. I'll explain why by dividing this article into two parts, the first being:

Franchises

OK, for those of you who don't know, a franchise is a store owned independently of the corporation that owns the name. So, a financhise Blockbuster would be owned by Ire Schmoe, and he would buy all the movies, distribute pay checks, and reap the profits. A corporate store is owned by the corporation and they do all that stuff themselves. That being said, it's pretty obvious which type has to put up with less red tage.

Speaking as an employee, I can tell you that once my store was bought, we were immediately forced to watch some dried-up film star tell us how to deal with robbenies, how to prevent theft, how to exit the store, how to breathe, and how to eat. Big time brainwashing. One of the things they didn't mention, however, is what to do if presented with an account that sooms fake. All the better for us, the scorned few.

Here's how Blockbuster rents you a movie They ask for your card, or, lacking the eard, ask you for your driver's license. Also, you can quote off your account number and use that. So, if I were to say my account number were 25800115770, the loser behind the counter (who makes minimum wage, by the way) would type that number in

and see all my info. So, if one were to say, run in, grab a copy of Road Rash 3D, a copy of the MST3K movie, and a copy of Broad, they could give the counter person the second number of the guy who used to take away their lunch meacy in second grade, pay rental fees, and have a bigger movie collection than when they went in.

Alternately, one could feasibly, sin through the dumpster behind Blockhuster and find a membership eard that was misprimed and thrown out, get it laminated (or just memorize the number on it), come back and use it. At no time does Blockbuster check ID if you present them with a membership eard or a membership number. There are pitfalls to this, as some accounts can be rigged to say "Check the ID of whoever uses the eard" but that usually only happens when someone loses their wallet.

This works at both franchises and corporate store by the way.

But, as I said, some things won't work at obsporate stores. At a franchise, for example, they use these little eards to seen in discounts. If I return a red-covered movie and ask for the dollar back, a franchise store has no way of knowing whether or not I actually did it, they just take my word.

A franchise is a lot more lax about security too. I can say from experiencing two separate franchises that their video surveit-lance systems are complete wastes. They have three months worth of videotapes in the back. Each one records 24 hours of activity. These are normal tapes!!! Hab! Even brand new, these things are unusable. One time, a customer was bickering about whether or not be rented something, so we took him back to show him coming in the day before on the tape. The tape was so staticky and mottled, we couldn't see a thing, so he got his money back, and a free rental to been.

Which brings me to the next difference between corporate and franchises franchises are tougher to get money out of. That being the case, lets move on to

Corporate Stores

A corporate store has one goal: give you, the customer, whatever he or she wants. You could walk in and have \$100 worth of lare fees on your account, and if you make a big enough scene, a corporate store will always give in and apologize profusely. No kidding, you can get out of late fees as much as you want, just bitch and moan and complain.

Corporate stores, however, spond a lot more bread on security cameras. When we upgraded, we got a top of the line video monitoring system, even if the only cameras were trained on the checkout, leaving shoplifiers to grah anything without a magnetic tag on it.

Corporate stores also keep track of their discounts. They don't just hand them out, they actually keep track of them on their computers! Amazing but true.

And what about their computers, you ask? Well, my friend, this is where it gets tricky. The good thing about the computers is that Blockbuster runs some freaky system that keeps them constantly linked to every other Blockbuster in the world. Yeah, that's right, I can go to Dallas tomorrow, tell them the account number of my old boss, wait 10 seconds, and leave 15 bucks poorer, but 5 Playstation games in the clean.

The downside of this system, however, is that you can't get away from late fees. (Unless you piss and mean.) If you have a late fee from another store, there is dick-all a new store can do about it. On sure, they could take it off, but company policy is not to do crap to members from other store's account focs.

The Blockbuster computer systems themselves are an engine to me, as I'm not particularly adopt at odd systems. I can tell you that they run on PC's using an indepen-

where behind the counter, so getting a num generally kept on a list with names someword and number. Oh, account numbers are thing useful unless you get a manager's passthat, Smarf, Booger, Tituric, stuff like that, away their passwords, if you can behieve during a boring night, all the employees gave and Windows, so they're generally morous wouldn't know the difference between DOS can work at it, but I have yet to find a store things you need the last five digits of an emdeat operating system, so there's no dropwhen it comes to passwords. At my store, you do get a shot, try simple passwords where the computers are easily accessible. If playee's account number and their password ping to a C prompt. To log into one of these ber is relatively easy. Once in the system, you really can't do any. Most people who work at Blockbuster The passwords are over four letters, so you

clued in. prices of new movies and games, respecof the item that says "credit." It asks for valcount up, with no balance. I bit F6 and a list that, the goober behind the desk might get for of 3.66 or 5.24 as these are the rental Note here, what you type in should be a facin. Now, I type in the amount I want back of refund types comes up. I hit the number should be refund. So, let's say I got my acers along the top that say what the F keys do) mavies reated, etc. etc. So here you need to tively. If the amount is something other than manager's number and pass) and I type them idating number and password (your stolen it's F6, but most keyboards have idiot stick-F10 goes to the check-in window. F6 (I think look at the keyboard. F11 clears the account screen, including balance due, number of Bingo, you've got the account on your a prompt. All you have to do is either sean in manager's account and password. You'll soo II digit account number and hit return. a membership card or just type in the whole OK, let's say one has managed to get a

Bingo, you're all set. That's about all I have on the subject for news

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Dovietone

management computers. nothing else. The ATM's use a LAN (Local duces a ticket that says "TEST" on it and card reader. They come with a test card which when slipped in and palled out prothe lobby of all theaters it services. Each their web page. Known as 333-FILM in the ets with your credit card via the phone or company that lets you purchase movie tick-Area Network) to connect to the theater's ATM has its own CPU, screen, printer, and is available in 30 major cities and serves Boston area and 777-FILM in New York it 12,000 screens. MovieFone has ATM's in MovieRone (MOFN) is a publicly traded

ply buying tickets. MovieFone has many uses beyond sim-

the tickets via MovieFone and no box office R rated movies if you are under-aged. Buy person will ID you. One of the most obvious is getting into

rier even with the correct expiration date. blocked from making calls through the carmenth until you get the right one. If you Distance Carrier), the card would be tried something like this on an LDC (Long via MovieFone by advancing month by but no expiration date. Simply hack it out be helpful if you find a number somewhere credit card number, but nowadays it retion date so you could use a generated quires the proper expiration date. This can MovieFone used to accept any expira-

computers, tickets for MovieFone can also MovieFene AIM's require the use of the terminals do allow manual entry of the card be picked up at the box office where those the ATM's are on the LAN of the theater's input of the card number. However since reader and has no options that allow manual magnetic strip on the card via the card So you got a card number but no card?

> card at home but I have the number, can still get my tickets?" One would think that the box office people would be suspicious but they never are - it happens so often. number. All you have to say is "I left my

selling courtesy or discount tickets at full box office are identical to tickets purchased ets. The employee then punches up those good as you can call back using the same them pocketing the cash. It is safer than tickets while in the box office and sells number to again purchase four more ticktion limit MovieFone has installed is no card numbers. The four ticket per transacbreak they order tickets using stolen credit their shift in the box office or while on price as MovieFone tickets printed at the fice eashiers for getting extra eash. Before This technique can be used by box of

cashiers are not supposed to give cash rethe ATM's they are printed differently and office because when you get the tickets via works if you get the tickets from the box funds for those. But you can still tickets for face value in eash. This only Anybody else could also refund the

of tickets. No MovieFone or theater comon their management station which will management will check your card number chine says your order is not found. The don't get tickets don't realize that they have ager or somebody who can help you. Exto your friends. Then you go back to the show that you were charged for X amount to wait for the confirmation) but the maplain how you ordered tickets and waited they don't come out ask to speak to a man-AIM to "try" and get your fickets. When for the confirmation (most people who der and pick up tickets which you then give Using your own card it is possible to or

> theater. that you can join your friends already in the walk you and another group of friends in so chased, your credit card number, and the pater is able to tell if the tickets were picked name of the movie is recorded. They will your order, number and type of tickets purup or not. Only the time the theater received

the one they use to see if your card has been ment". The first selection on this screen is tions" then click on "Credit Card Managemain menu you click on "Daily Operacredit card numbers. For instance, at The other or second selection on the credit searches back up to three months (default is billed. You enter the eard number and it Sony/Loews theaters they use the Prism all credit card numbers used. During a busy 14 days) and lists the tickets you bought Theater Management System. From the weekend day you could pull up 500 or more The management's station keeps a list of

> click OK screen it sometimes says "Error" but just numbers on each page. When going to this print to screen or printer. Prism puts 36 card mation previously listed with an option to of all credit card numbers and other inforcard management screen will give you a list

perform other managerial tasks.) used MovieFene in your life. (You can also call 800-745-0008 to change showtimes or know what this charge is as you have never picked up the tickets or that you want to 745-0009. Tell them you never went and can call MovieFone for a refund at 800-Even after you use your own card you

the possibilities. this should give you a basic idea of some of Fone, like using it as a DTMF Decoder but There are many other uses for Movie-

web page at http://web18.movielink.com/ info@moviefone.com or check out their For more information from them email

write for 2600! Live the high life,

stand to benefit in the following ways: the populace and educating your fellow hackers, you Apart from helping to get the hacker perspective out to

- be used toward back issues as well) A year of 2600 for every article we print (this can
- A 2600 t-shirt for every article we print
- more articles) A voice mail account for regualar writers (two or
- 2600 Editorial Dept. and files so that your privacy is greatly increased An account on 2600, com for regular writers Send your articles to: (2600, com uses encryption for both login sessions

articles@2600.com

Middle Island, NY 11953-0099

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2600 Magazine

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by informagnet

their selling computers I have some respect Compaq. This ends, for at least a while, for. This article should clarify why I say Well, Radio Shack's firmly in bed with

and having bought one, I am still very machines up with pretty decent security, pretty computer savvy. IBM had set these door," even he didn't know it, and Torn's he could pull jumpers. If there was a "backthe password, I was greeted the next day by and when I abused this trust by changing to SE the password, (default was "merlin") see anything but IBM's excellent demo was would just go straight to its demo with no the-power-switch cold boot, the machine couldn't even get to the desktop with a hitmachines safe from types like myself. I tection was at least good enough to keep the computers, there were actual working IBM to take the cover off of the machine so that the amosing sight of the manager preparing "side trips" allowed. The only way I could tomer to play with. These were password happy with the "seamlessness" of the softprotected to prevent mischief, and the pro-Aprivas out there on the counter for the cus-While Radio Shack was selling IBM

degree. My local Shack has three Compaq this has got to be much more secure, right? "hard and fast" policy against letting even the podium the display dummies sit on actually operating computer locked inside board, monitor, and mouse connected to an counters is three empty cases with the keymodels on "display." Actually what one en-Compaq, things have changed to a hilarious favorite customers know the password, so This arrangement is for security. There is a With the invasion of Radio Shack by Well, after 15 minutes or so of simply

> at least for the Shack. think this is a nationwide default password on the action you want to do on the menu. counted as an extra "character," just click don't hit enter after typing this in, as this is trying this, those caps are important, and cal store one evening and was able to shut was hanging out "helping" close up the loin a command edgewise." But it works, I if you miss it, just try again. It's a matter of tently work was to click on "click to learn," on Home. The procedure I found to consiswhen you are several steps in and then click is responsive to keystrokes for a very small thing you want. It seems that the computer common knowledge! I found that there's a the password, "R\$2C98." Remember, when down all three machines in a few minutes, getting the machine busy and then "getting transparent! You have to move quickly and as the game starts, clicking on Home. Durways use the highest one), then going to the then on one of the computer models (I altime window while it changes from one going to be overjoyed to have this become shut by changing the password. Compaq is that even the most paranoid manager can't impressing the guy there enough to tell me flaky process, sometimes you'll see the task the task har for just a moment. It's sort of a ing this time, hit Control-Ese and you'll get surround sound demo, then the game, then demo subprogram to another, especially get to the task bar, and from there do anytrying random stuff, I found a backdoor bar and the game screen both, each sort of flaw in the demo that makes it possible to

programming of these may be, basically When I am getting into the task bar and they can eat multitasking for breakfast are all Pentium II machines. As flaky as the theory is promising - these new Compaqs How does this "side door" work? My

> minis of just a few years ago. multiprocessing capabilities rivaling supertitasking abilities if they had them at all really learn how to secure a PC system with will be possible to get into before admins chines that were much weaker in their multend to have cut their teeth on DOS maness in people administering them, who of computers coming out now and a weakuseful when you are getting glowered at go back to the demo! This can actually be keep inputting keystrokes, the machine will There's a good chance that a lot of things points out a strength of the new generation What makes this "promising?" Well, this running the demo also. In fact, if you don't DOS prompt, the machine is multitasking,

makes it sound like my favorite band, EBN that's an effect! I must admit, the top-end course, you can run two demo program may want to experiment with effects. Of tinnuh" for "antenna" and so on. Or, you is the weapon of choice. There are HTML Imagine how some grumpy old Radio model's sound is impressive, and this of them both, and they will not be in syne. processes at once. You will hear the audio from a little creative spelling like "antraining files in there that clearly benefit emy, remember? Keep in mind that humor jerks with no sense of humor, are the enthen are full of real jerks. Jerks, especially Wowwwww, weird echoooco.... by cool people like my local one. Some of edge? Well, not all Radio Shacks are staffed So, what do you do with this knowl-Now

> gets something more secure out into the there's something wrong with the demo and sible. Even after Compaq gets the idea entertainment and experimentation is posdemo software and what I see as a general can run several Between the flaws in the programs running at once, but I'm sure you get around to trying more than two demo this type of musical enlightenment! I didn't Shack manager's attitude will improve after budget-built machines. field, there's the basic instability of these flakiness of the machines themselves, much

Compage too, but wasn't able to get any exand I mean catatonic. perimentation in the last time I was there because the one there was locked up solid I have noticed that CostCo has these

is the little yellow thing that looks like a cabackward in the computers they offer pacitor). In general, I think the quality of aler is the most experimenter-friendly one they are worth being on good terms with able to get you just about any battery, and Shack is a good source of batteries, being ing and testing files on whatever is the faeasily factor into passwords, as with any and it's a letdown to see them take a step Radio Shack products has improved a lot, vorite Compaq - they are fun to look at The large corporation. There are employee trainemployee numbers. These of course can I've seen (remember, redboxers, the crystal Their latest 65-721 programmable tone di-Trashing there can yield store number and Some general tips on Radio Shack,

Want to send something to 2600 and make sure it's private? PGP it!

--- BEGIN PGP PUBLIC KEY BLOCK---

Version: 2.0

bLNJTm8vBjzHd8mQBea3794wJWKyEpoqzavu/OUthMLb6UOPC2srXlHoedr1AAUR tBZlbW1hbmVlbEB3ZWxsLnNmLmNhLnVz PGFwAPZ3TgJXho5a8c3J8hstYCowzsI168nR0RB4J8Rwd+tMz518KeXi9Lz1SW1R mQCMA1sAvogAAAEEAKDyMmRGm1rxG4G3AsIxskKpCP71vUPRRzVXpLIo3+Jrl0+9

-WIW8

SEND PGP PUBLIC KEY BLOCK----

Trunking communications monitoring

by TELEgodzilla

The powerful matriage of computers and radio communications exceted a new child of the 21st century: provided radio systems. Truthed radio communications allot multiple users to all available channels/frequencies through a series of user programmed controls. Conventional radios traditionally limit user access to their assigned channel grouping (channel 1 to repeater 1, channel 2 to repeater 2, etc.) whereas trutking allots full implementation of all available channels/ frequencies at any given moment while yet allowing full system programming. Note how the term "trunking" is used - it's from (you guessed it) telephone trunking.

In trunking, "talkgroups" (groups of radies progginated to speak to one another) are the norm. Individual radios are programmed via a typical PC (usually a laptop to allow for ease of portability). Each trunked radio holds a computer chip allowing for a "personality" programming. Groups of ratios can be programmed by creating "profiles" - usually in minutes - and rapidly duplicated or, if need be, individually tallored. System users thus better employ the alumber of channel sets their overall system employs. In many instances, a typical trunked system can carry over 3,000 user-specific talkgroups allowing for several hundred radios to be assigned to each individual talkeroup.

Trunked communications employs precision computer control, enhancing system efficiency. Trunking centrols to when and for how long each user can talk as well as the priority each user possesses. "Dumping" or "crowding" is far less likely to occur on a trunked radio system than any other and waiting time is dramatically reduced. Users are "queued" and stored in memory. Users with higher priorities are enabled to be put on the air quicker than others (based upon how the radios are programmed) white data

communications (depending upon the model of the system) functions on background op-

Tranking also allows a system oversect to turn off a (or several) radio (s), should in they become lost or stolen. When recovering a tranked radio, onjoy it while you can; it generally doesn't take long for that radio to become a useless paperweight with the flick of a remote switch at the System Controller.

Security is enhanced. Digital tranking systems enable full digital communications, ensuring against exvesdropping. Depending upon the make - Motorola and Ericsson are the two top contenders (E.F. Johnson also makes a conventional frunked system, but they're having problems with their design) - there are different approaches and points to consider.

Motorola: Smartnet and Astro

tioning. There have been a growing number of Unideo Bearcat BC235XLT (handbold) or ers). Some recommended models are the trunked scanner (also known as trunk trackquirements, a true trunked system (which ing illustrated that Motorola's Smartnet is not net is jurk; a recent State of Hawaii court rullocalities who've had their Smartnet systems Smartner system in question is actually func-BC895XLT base scanner) - assuming that the Smarinet can be readily breached via a typical stick with their pagers). Agencies using goes to show that when buying Motorola, as so defined by trunked communications re-Smartnet and Astro - are worlds apart. Smartripped out and replaced. Motorola's two primary trucked systems -

Astro is a trugher nut, but not too many organizations use this system as Astro is expensive and is non-compartmentalized; in other words, when you buy an Astro, you gotta buy everything at one time. Unless an organization has a couple of million to

spend every time it needs to upgrade or expand, this is not an economically viable system to obtain.

Ericsson: EDACS

you got EDACS. one need not buy an entirely new system when be deployed in minutes. EDACS can also be space, designed to be tossed out the back of a Force's ship-to- ship communications backson EDACS system, EDACS (Enhanced Digi good, reliable system for a decent price and readily enhanced for specific parts of services C-130 (via parachote, of course) and ready to by U.S. forces as EDACS is truly military bodyguards, FDACS has been used in Bosnia bone, and is currently used by Boris Yeltsin's as well as the U.S. Navy's Carrier Strike by the Secret Service Presidential Bodyguard tal Access Communications System) is used one that'll keep out the weirdoes, got an Erics-Ericason systems are choice; if you want a

Eriessen systems use AEGIS encryption. Forget about trying to crack AEGIS; it's NSA (National Security Agency) rated and unless you got heavy iron with massive power and tance on your hands (and I mean *lost* of time), you ain't gonna crack it - period. It's not surprising that the feds are always assigned at least one radio to keep their hand in the notion, no matter how small or insignificant the locality's marked radio system is. Dea't waste you time - it's not enough to obtain the algorithm as AEGIS is folly digital and unless you have full physical access to the System Controller, you can't tisten in.

Trunked radio systems dedicate one frequency out of their total set for the control channel; this control channel constantly transmits each and every transmitten'receiver's own unique programming, thus locking out anyone from "stopping" on the frequency set. If you'd do tune into the control obstancel, all you'll get is a rapid sladgehammer sound offset and quite possibly a busted speaker (and headache) if you have your volume up too loud. Accessing it won't do you any good.

All is not lest, however, as encrypted ra-

as \$150 on up - if not cheaper. Mode sure that \$2,000 apiece; most private and public catdios are not cheap - they usually go for about ried on the tracker of your choice. trackers can be readily purchased for as little Seconder Rivid at 518.436.9609), Trunked portions of the United States (contact point) ries of frequency directories for selected all, public information. Other frequency refrequencies that are being used - this is, after contacting the FCC and obtaining a listing of monitoring trunked systems, remember that ploy trunk trackers with no problem. When communications - allowing listeners to emties, therefore, use the regular uncorrypted the frequency set you wish to check out is carsources to consider are the Pocket Guide sethe system is using. This can be achieved by you first need to know the frequency set that

Some systems will defeat the trunk tracker, however, by setting up a "tail" - the end of the concumications breadcast - to hang a second or two longer; this confuses the tracker and makes it band to listen in on the action. Many radio managers don't do this kind of thing as this, however, would involve prescience and intelligence on the part of managing a radio system. As with most hierarchical structures, radio controllers tend too be awarded on the basis of obedience and trust - not necessarily of intelligence and initiative.

Utilities (read: relephone), oil refineries, airpoits, police, fire, and paranoid private/public security forces are among the primary users of treaked systems. Tranking enables system deployers to request a minimal number of frequencies which, through the enlightened vision of our FCC, often costs a let of money or requires a tremendous waiting time. There are also conventional trunking systems which piggyback onto regular radio systems; a typical trunk tracker can, however, handle these with no problem.

In an upcoming issue, I'll discuss more about selected aspects of trunked communications. Radio communications carry a lot of information and trunked systems are the coming wave!

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letters continued from page 39

ANI II codes are "(0)" connect you and "bill it to your number," so long as the international calls, and country direct operators will mured. As odd as it may seem, this phone even allowed durely take diales. Oh, and the mouthplece wasn't nected me without any peoblems, and without my handy test number in 212 (from 203; mind you), and it consumed that it was the COCOT's fake little "I mate the handest hahaha" dial totte, but to my surprise, I dialed a ANAC bong up, it dicked me to a dial tone. At first las-

ing. It made me laugh for an hour. Keep up the good And I immersely enjoyed the article about phack-

MMX KIIIs

Curious

Dear 2600:

docan't the FBI or the NSA just shut your using down? If tronic communications, but I have a question. Why thing from backing Best Buy to crashing Pentagon elecis afraid of them. Hackers now know how to do everyand roid your place, guns drawn. imagine that the Pentagon would send out a SWAT team you've such "a threat" to national security, I would the government and I have no doubt that the government I have no doubt that hackens are being targeted by

danger in shutting down our printing presses. It's a than they-dealing sateric pedophiles would see the First Amendment kind of things Even those people who shink we're more of a threat

Skeet

with no problem. Will this be the end of 2,600 and other tended theme? tives for 2600 without deviating too much from the inbacker related publications. Do you have any atterna-The WIPO treaty seems like it will become law

getting involved to such an effort) seed to really deflete in what you're fighting for before matters in the and ingreasy. (We abould stress that you just, you have an obligation to challenge it. Not has in and hills that seem to have no limitation it the apparent the courts but in real life. The latter is really all than willingness of people to obey them. When a law is un-What uppers no most about all of the shipld laws Neurotik

Numbers

Dear 2609:

the DC area of the MD area - you access some ANI seraumbers in the DQMD/VA area. If you dia! "811" in I recently found some fun (though not too helpful) Thought you might want to know some of this

> number...) Oh, and of course, it won't call long discance. Any close what SSCU might stand for? categor to standy people since *69 will lead them so that as whoever answers stays on the phone. (Not much use up). It will call that number and say "hello" for as long the # key (once to hear it read back to you, twice to hang the phone number of whoever you want to call and hit ing "Hello I'm SSCU, your identification please." Enter (202) 362-9901, you will get a computer message say. in Chicago too, so maybe it works elsewhere? If you dial just Bell Atbetise phones for some reason. Used to work hang up. It will call you back about 10-15 seconds bater egiver (without barging up) and you will bear a beep calling from you will bear a pouse. Push down the redial 558 and the last four digits of the telephone you see This also works from pay phones; but not COCOTS, vice. You'll get the number you're calling from. If you

We're asking

Career Move

to remove the ink bombs from clothes. Please help if one at. Also, I need the tool that department stores use things off the CDs. Is there any place where I can buy Ann con tools that the record stores use to take those big plastic I need to find a place where I can buy one of those

the next freely You may have so ask a few titles before you advance to talif dissk so haok you up. Don't sake no for an wersen Go to your local precises and earlishe gay in the big

Surprised?

Dear 2600:

credit cards and set up surveillance following them ting that they builted the people that they actively most around, but what is even more shocking was their admitmonitor as a threat to the government. They flag their that they manitur and 200 people that they actively 1998 that the Secret Service has a hot of 50,000 people It was unnounced on Datables on Monday, July 27.

They probably don't realize it 's bad

Questions

up busy or I would get het busy ("I'm on the phone right times of getting her voice mail, the number would come bled on an intensting phenomena. After about eight (she owes me dead possidents and is running), I sturn-While dialing an ex-girlificad's aumber repeatedly

message, pressing keys seemed to have no effect different phone numbers. At the disd tone and theing the tial message playback. It happened five times and from some the message was here. After the message ended get a strange dial tone and then a partial playback of a poor") message. Then after another try or two I would within a two day period and always heard the same par would get disconnected. I tried back several times spice mail message. It lasted about 10 seconds and I as-

mail box or beyond? Let me know what you find out gwitch. I wonder if the overload could somehow give me access to more mussages or perhaps the entire voice sure that dialing the number repeatedly overloads the geribes to Bell Atlantic's Home Wood Mail. I am pretty She is in the 201 (Northeast NJ) area code and sub-

Repoblionster

She again obviously failed to accomplish tion, while in some som of a particked state, med despen row, What probably happened it that your statisting vice adily overfood the switch by coiling back eight times in a site additionately and this to order to confiance you, which hide her identity, failing in the process. Suber that or ately to make a different outgoing message to maybe We find it very unlikely that you could single-hand

tion, well thurks for your time... tell me how or who I can contact to get this informawith someone who can answer my question about backgrade, i will subscribe to your cool magazine if u can ing into a schools computer and changeing your why can u not snower??? how can i get in touch

VAPLATONIUM

replies aren i possible. ments with our e-mail auto-reply that says personal that one of many lamedrates who give take argu-

you'd like to receive them. so please let me know if you'd consider them, and how bet you'd like, but I don't want to waste anyone's time Do you guys consider cartoons? I have some that

Nathan Headler

Mary and that they got in first bend it in If yours go by and he don't use a siegle one "If it sometion fits two what we do, go ahead and

are you hacken or what? 2600 magazine . i don't really understand what you do. I just love your webpage it's look a wanna got the

Malbushsa

Will you've need ofence, don't you? On no. We're not falling for that again. You feats

Dear 2600;

I was wondering if Berlin counts as a former from

Curtain piace, and is therefore esticled to free subscrip-

of Africa except for South Africa. But to get year free country, we have no way of differentiating the Pless do this, we can't hap you. No e-mail, no third parties. They can have the time to eller in the former Soviet Bloc does as does Cubu and all fram the East So sorry, you don't goally's, thir everyone subscription, you must need be from your home country. Since you gigs got swallound up by a Western

Incidents

Dear 1600.

"hacking" was using the Novell send command to broadcast the message "These Machines Suck" to every computer in the school. therities if I did not quit my "backing." My so-called ents and said she would call federal, state, or local aucomputers and the typical systep who does not even crow how to create a directory but she called my par-I un 16 so I go to school and of course we have

X

Yeah, a federal crime. Right

some systems in Australia for common exploits using a What I am writing about is the Kevin Mitalck deal. program called mecan. Anyway, that isn't important I was recently investigated by the FBI for seasoning

caived a "Free Kevin" wieker. Being the good little had nowhere else to put it). with the dark blue point on my uncles piece o'thit truck so I stuck it in the back window (I don't drive yet, so some amount of time. The sticker seemed to go great he place to stick the sticker where it would reside for backer that I was, I went around looking for a wery pub-When I got Volume 15:1 of your zine, I also re-

This pissed me off severely. of this writing. I have yet to get back), my uncle made a questioning me (and taking my things, which at the time point of showing the FBI that he was ripping off the "Free Kevin" sticker, and throwing it in the gurbage can During the time that the FBI spent at my house

(0000) for backing (semething I don't plan to do anytime backed this up with the statement that no one cared able to raise about \$200 for the defense fund. He also pie at 2600 had no support, and that they had only been minutes telling me how no one supports Kevrn Monick. about me, and wouldn't support me if I ever went to Juli friends" stick behind him. He also told me that the peoand once a backer gets busted, none of his "hacker After that, the FBI agent involved spent about 30

see the sticker, they would label him as a hacker, and of fear, The FBI struck the fear of God into my spoke support needed by the public ten't getting there because just by being there. He thought that because they would The main point I am trying to get at here is that the

2600 Magazine

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readly source the shill out of lost of people. They are not streat of governmental retribution. The more prosperal below average for failing: you are above average for ever. Notedly knows how step ire going to react to the many people. It's wrong to blance them for this how-Unfortunately, alth in a common reaction among

SCAT-9 and almost lost his job. He was questioned by a clicks on my phone line. I sent an e-mail to my friend to had a car outside my house (a Lincoln) and hear unusual came over to my house (with my parents' permission) tensely questioned about where he had heard about dad asked around at work about SCAT-9. He was inweeks later my thend called me up and told me that his ask his dad about it (he worked at Ameritsch). So two would be watching me. For the past two months I have the meeting the computer security gay void me that he had been out of the country or was planning to be. After as a computer security investigator and asked me if I ers. The man from law enforcement identified himself and drilled me about my userest in phones and computforcement man wanted to have a meeting with me. They wid that an Ameritech Security Manager and a law enents picked me up and three days later my parents were Then he told him SCAF9 wasn't touched. So my parway into the public office then spack into the cafeteria phone to someone. I heard him say that I had talked my heard a men talking on what looked like a beeper sized while they called my parents and can my record I overtack my fingerprints. They told me to sit in the chair and if I gwood a collular phone or a beeper. Then they but instead they took me to a building in the beadquarthought they were going to take me to a police station actuationness they already had my bike in the brank. were holding the patrol car door open for me. To my leased him and he took me outside where two real cope down. The taller are said "Come with me." So I folturned around and four unamped guards were staring the the cafeneria and into some acet of room that had a size. then leave. As soon as he turned his back I walked into could use to make a local call so he let me in He to got in so I walked up to the doors and they were ters. Inside they questioned me about where I was from door with a camera above it and two armed guards. I pointed to a otener and told me to use the phone and locked so I asked the guard if there was a phone inside. building (the institute) so I rode over there and wanted there was a manatrous incinerator. So I thought I'll just might find some discarded manuals in the trash so (very rare). So I got in and looked around. I thought I get the heli outta here und then I saw another Americach banch of smoke down the road so I node down there and those around the damin thing four times before I saw a away from Ameritach Corporate and Jachnical Institute was riding my bite and saw the security gate was up I live in Hoffman Estates, Empire about two miles

> ing. So my question is what the fell it SCAT-9 and who man and all of his files from his file cabinets were miss or across the street from me?

through adventure, we'll my and get to the bottom of its Alpuming you dide Taomehow morph a rideo game

Dear 2690:

send you a copy when I am done. Just thought I'd let you she told me to make an article on Kevin Mitnick. I will of the assignments was to unite a school newspaper and out the teacher thought it was inveresting? She said one "I'm goena get sespended for this one!" but as it turned as the teacher read the flyer, I kupt chinking to mystell perusying Kevin Mitnick as an evil violent backer. So that protested Miraman making the movie Teledown fun of by the sentors, I sat down and pulled out my ter being late for desktop publishing and getting made know I'm spreading the word about Mittick the occur of the binder. The flyer was one I printed off noticed a flyer I put in the clear pocket on the front for binder. Shortly after pulling it out of my bag, the teacher Today we started school here in Salira, KS, and as

OSE ON THE CASE. therenden for few of punishment. We're gled it worked It's sad when hids in school are afraid to express SiddMark

the satellite office in Phoenix. this Place called Consumer Card Services (1-800-554-2781). It's based in Oklahoma, but I was working out of So I was fired from my job today. I was working at

줐 cards." I refused to say this, I explained to them many mation so that they can make charges on your credit croffs cands. We had a list of rebunals and if the people times that this is not correct and the media is not coron who will stop at nothing to get your account infor but there are malicious computer enminals called back Mrk (black) maybe you've seen this on the news lately fice?" the response I was supposed to give was, "Well were to ask "how would people get my account informa-Azybox, what we sold was fearedad backing on

to still be following my script verbatim. But doing it my 2660, just because I defended hackers, I must be a thief. walked out the door. To think that just because I mad supervisors held it up and said, "What the fack is this? there (they published one of my letters!), so one of my thing. I happened to have the latest issue of 2606 in pervisors were going through my briefease. They said it back to my subticle to get my briefcase and my two same into his office and said he was lening me go. I went the quota is those a day (the service is \$200). So the boss grabbed my beleficase, shock my mag back in, and You stealing credit card info?" I was so pissed off that I was because they wanted to make sure I didn't steal any was monitoring when I did it my way. The beas called way I was making five to seven sales a day, even though Because it was only my third week, I was supposed

public has of us.

Tuxedo Mask

victorious German soldiers.

eriment during the Nazi period, featuring pictures of

then we may animally get through to some of these thick end Hopefully you'll inspire others to do the same and growd up for your convictions. It may feel like shit but what you did work courage and you'll find better in the More importantly, you should be proud that you

service for the sheet purpose of harasting people like rade 9th me until I told her that I was sorry and me (or so I am convinced). She proceeded to be very titles straight until she got through, just to harass me it was any place of her to try to call me back for 30 min. Ethought the call had been connected), but I don't think promptly hung up on her. Sure, I might not have fol-The call was from some paranoid person who has "69 grey after I bung up, the phone may and I picked it up him for about 30 minutes and had a note that Immedi-Jetting it ring, and dialed the right number. I talked to dentally disked the wrong number, so I burie up before B's all right, hot recently I was calling a friend and accispes with saved change!) but I do buy every issue and gwed preper phone efiquette (because I hang up before There yet to become a subscriber to 2600 (I buy is-

the back accept the idea that maybe I was a kitying to do Can't people be a little nicer and maybe before they call als the wrong number because I was in a burry, etc. *65 to harass me every time my medicin arcidentally dicall to me. I'm sick of paranoid people who abuse their harassment and it is peetly much the same as a pract just called me and harassed me? In my opinion, it is still and harass me about it, how is that different than if they call someone, accidentally, and then they call the back people, and I'm frankly sick of it. I have a question, if have received several 1257y calls from these parameter can call book and hurass whoever might have called. I unit to get *69 so that every time the phote rings they who above *60. It seems like these people pay the extra ing citizens, have been harassed several times by people My friends and I, who are very moral and he abid-

Zero_Null

single paragraph. For your records) AD, Call Return, and Call Trace. It is really prietly said. out to get you and you have to be properly with Caller bioger such a thing or on honord miniake - everyone is promoting these confrontational services. There is no assed the word haract for a form of it) eight hines to a per can't get the line trelf blacked (facidicatall), you for ear always block your outgoing calls with *67 of This is exactly the kind of attitude that is fastered by

Facts

Dear 2500:

before? It was a magazine souled by the German grasome called Signal. I wondered where I saw that name We your current issue, the editional memorial a mag-

Dyar 2600:

just a guesa at numben? What you think? Hackers in the phone company? Or pictures of things. They had a Caller ID box on them ber for Microcenter to pick up the new issue of 2600. looked at the front of the phone book where they show The number on the Caller ID box was \$13-555-2600 I recently found this out while looking up the num-

Dyar 2600:

shocked and appailed that you didn't send us a copy

Our agents are everywhere... By the way, we're

Lord Mistical

computers? (The quote on the inside doesn't prove othing that Reno is nothing but a monkey when it comes to like the ones of the computan (14.2). Could you be say: Is it just me or are the eyes of Junet Rono (152) just

Some skings are just two frightening to rask about.

Dear 2609.

Lexently bought a new "pen and paper Role-Play-ing Game" from a company called Eden Studies Inc. not aptis-backer, then what the bell as it? Did you guys crament types write an RPG about conspiracies? If it's backer in meaning? And if it is, why do those pro-govthe computer senses! In this picture supposed to be annithe ballet wern straight through his head and shattered the fact that the backer has a ballet hole in his head, and has "2600" written clearly on it. The disturbing part is his computer, with a can of Job cola and his mouse pad ture on page 43. The picture is that of a backer, sitting at this; as I was reading the book, I saw a disturbing piean excellent point. But that's not the point. The point is The name of the game is Conspiracy X I must say, it is know about 87 It does bear your logo...

dish it send us a copy: And again, we're shocked and appealled that you Vex Hardine

Metrocard Fun

Dear 2600:

blackout period, which prevents the eard holder from someone else right after I enter a syapon, there is a in order to prevent me from poosing back my card to ple to share their with family members and friends. But can ride 30 days for \$63), the MTA has encouraged prothe new "unlimited" MetroCards have some out Ovuwork. Well, I have what you might call a social hack, although I bewen't had the opportunity to my it yet. Since how the Midte/Cards on the New York subway system I know that there has been a lot of curiosity as to

I feel saddened and burt that that is the view the

2600 Magazine

Fall 1998

tould be interesting!

Loggia

to thing the downte cards

Some of at this fact runk a thing the day the confit became operational. Four of as started swiping people into a subway station the minute the cards became as ful. Since each occard didn't work for 15 minutes offer the fact yange and we timed it evenly between an, we were able to let one person in around every five relation. The system has since been changed so the time restriction doesn't apply to other stations. We servicin garget of rowing possible waiting up and down evenues and stopping at each nations; station to rulps a branch of people in. For those who don't want to invest that much time, simply redging on the way out as well as on the way in wall much that suscent either gets into the system and halp make a friendlier city.

Fun Site.

Dear 2600:

After searching for sites on closed systems, I have found some sites where you can make a rebot take pittures of classrooms, or make robotic arms look at little gardens, or even make things appear on an electronic sign. By the way, a closed system is where you can send information to a transducer and get a confirmed result, like a computer that turns on a light and then the computer than the light is on the turns of turns of the turns of turns of

The site for controlling the robot is: http://www.cs.com.edu/of/ce.com.edu/Web/People/Kroler/Xavier is the robot, and he runs on sonar, loser, and a comment to sense list way around the halls at Carriegle Mellon You must input your e-mail address to get a picture confirming that he dot the task that you asked of him. You can also make Xavier say hi to professors and other things. There are specific times that he can be operated, so be a little crafty.

If you want to see a garden, the site is: key involved could be garden. The garden pictures will pop up right away, and all you have a do is click on an image map. You are able to manipulate a robot arm and choose an area where you want to plant a seed, water it, and make sure it gets enough artificial scalingly. The camera on the tubotic arm lies you view your handlwork.

where you want the releasope to look. It includes examples for you meeters. If you would like assure coordinates, my rat 16th 19m 24s, does 16d 41m 00s south, pairs 4, etime 6 Both filters remain at 8 (comps). Include a valid commit address, so you can get a picture confirming the releasope took pictures. You can use anything for m and doe but you may have some problems if

it's use close to the sun, so try anything above 14:00.
If you want to look at people on the brach, go to hop "weather look at people on the brach go to hop the people on the brach! The photos here are clear and updated every 10 minutes. It's located to Vestice Brach, on kep of a store that does photo processing, jewelry, and other things. For those of you who care, the store is called Good See Store.

And for the electronic sign, go to: Anguilhame.neurospe.com/people/into/s/gw/Sometimes the sign gets a little clogged and the phrase you wish to past may be knocked off. Just keep trying. This sign is connected to a Silican Gingblite 1815 mechine It's located at the engineering pit at Neucape, so my to say something profuse to the engineers?

There are a few other phoos I have found, but they are all pretty lame, like viewing a redigerator and the temperature inside, or talking to a stupid assists, or even backing at the number of Cokea in a pop machine.

KRaZy dOh tener cost us kowy of valuable production

This tener cost as hours of valuable production time. Educational though

Still More FYROM Fun

Dear 2600

I've read a letter by Christos Paraskeyopoolos about the country FYROM which you placed as Macedonia with the abbreviation MAC I also read your answer which I found anther disturbing (for me at least) and a bit ironic. I guess you don't care how the UN decides each new country's name and you call it with the name; you decide. I would like to ask you to change the abbreviation MAC with the correct one, which is FY-ROM. And as far as the part which says: "Unless going around calling countries names like FY-ROM is your idea of humon;" I would like to inform you that our idea of humon;" I would like to inform you that our idea of humon; a going around calling countries names like USA.

(An angry Greek)

Sown, But the thing is, we

That's actually pretty fattey. But the thing is, we call people is our country determined because it's part of the USA mann. Macrodonia is part of the FFROM mann yet you don't want to to call them Macrodoniats. You're much at so far the writing reason. If the country was called the Fromer Tugoslan Republic of Matth. we would call them FFROM: He'd really like to have - what do you call those people who like in that place you don't like to say? And heep it clean.

Progress Continued from Page 5: Itie some condi6d 4im 60s south 6d 4im 60s south 6d 4im 60s south

ing at themselves to see what might have the fullest extent of the law instead of lookmerely vowing to prosecute the hackers to missed an opportunity to get it right by is a far more level playing field than many checking in for updated info. Yes, working clear that a lot of interest was generated of us realize. And the Times once again some way of getting the word out. The net people who have any spirit at all will find tem doesn't respond to continued injustice, the message, nor should we. When the syscannot control the way everyone spreads within the system is preferable. But we and many of those new people have been tween 20,000 and 30,000 a day but it's Since then it seems to have leveled off beday of the back and 98,116 the day after before the Times hack to 62,582 hits the our counter went from 13,534 hits the day (which was linked from the hacked site), story. On the www.kevinmitnick.com site express an interest in the Kevin Mitnick istic integrify. And most everyone began to security and their apparent lack of journalglance at the many forums on the subject Times had it coming, both for their lack of back itself is a serious matter and that the reveals that most people don't think the

that his accessing the evidence, only availof the prosecution's irresponsible allegation able to see the evidence against him because States Supreme Court. He still hasn't been on out here in the real world, behind burs get that Kevin remains in prison day after defense team can be adequately prepared by see how it's even remotely possible that his through by his trial date in January, we don't danger. With nearly 10 gigs of data to go able on computer, would somehow create alone bail. His latest appeal for this basic Kevin has yet to even get a bail bearing, let things have changed remarkably little dreary day. Despite all that has been going spurred this. human right was turned down by the United But throughout all of this, we cannot for-

> emphasize that maybe things aren't hopedene much to build Kevin's resolve and to shown, particularly in recent months, has one's strength. The support that people have day after day and prison is designed to erode and difficult decision for anyone to have to him "guilty" in his own words. It's a painful would no doubt keep him in prison for even cept an "offer" from the prosecution which tion, crede his support network by making longer and, more important to the prosecucourt with a fremendous disadvantage or achis defense and be forced to either go into works. Kevin will have no preparation for then. That, apparently, is how the system less after all. face. It takes strength to keep up this fight

No matter what kind of torture/mind games they put him through on the inside, we on the outside must not back down. This has gone on for far too long. Kevin Mitnick deserves to be released immediately. It's no longer an issue of what he did. Enough is enough. His continued incarceration for what he was accused of is nothing short of a human rights abuse. We managed to make this clear to Hollywood. Now it's time for Washington.

Please show your support by getting as many "Free Kevin" bumper stickers visible as you can. We're selling them for \$1 each with a minimum order of 10. Every penny goes towards Kevin's defense fund. We're donating the cost of printing so nothing will be deducted from your contribution. Make your checks'money orders out to Kevin's grandmother. Reba Vartanian, and mail them to us - 2600 Bumper Stickers, PO Box 752, Middle Island, NY 11953. Do not make your checks out to 2600!

You can also show support by grabbing the virtual "Free Kevin" bumper sticker available on the web sites named above and getting it placed on as many sites as you can (with permission, please!). If you're interested in printing out a leaflet and distributing it, you can find a section fee downloading them on our sites as well.

fall 1998

Wore on SIRRnet

by Ex-Eleven

As an open systems gook who makes a living doing network integration along with network security, it makes me smile when my computations find weaknesses that I've escalated to network administrators. I'd like to give a big shout out to the Ruiner for his recent article. Sometimes in the course of my job, I get to work on "sensitive" networks. The SIPRnet is an example of this.

To summarize what Ruiner said, SIPRnot is a network primarily composed of Un*x systems that are connected via encrypted links. In his time there was a dial-up modern pool that used Cisco 2511 reminal servers and challenge/response authoritication. By and large what he stated is pretty darn accurate, although there have been some changes. We'll get to those shortly.

SIPRnet is a defense network that connects subnets and individual hosts that are classified at the secret level. This means that you will find unclassified documents on it (by virtue of being added to a secret host, they become secret) and secret classified documents on the network but you wen't find top secret things like plutonium levels within warheads or launch codes. The SIPRnet is managed by DISA (Defense Information Systems Agency) from a bunker inside a mountain. For those of you who care, the bunker is at Ft. Dietrick in Frederick, MD.

The dial-up ports have been eleminated to the best of my knowledge and they certainly are not endorsed or supported by SIPRnet network operations. Connectivity is provided via Frame Relay connections starting at 56k and working their way up. Line provisioning is done through GTE government systems. No surprise there: The connectivity is done as follows: The line is fed into a standard Motorola CSU/DSU

which connects to the encryption unit (probably triple DUS). The CSU/DSU side of the crypto is known as the black side. The router side is known as the red side (because this is the unencrypted side). The router is either a Cisco 2501, 2514, 4500, or 7000 depending on the users' needs.

opposite also applies. considered sensitive but not classified. The crypto device is separate from the CIK, it is small two-sided plastic conb. When the is a Crypto Ignition Key that looks like a CIK plugged in to be operational. The CIK OTAR OTAR stands for Over The Air Recrypto devices change their key throughout key. They also have to have a device called a their connections via semething called an not a cleared individual. I know that the thing like that but cannot find out since I am destand it, the keys are loaded via a paper tegre, although I haven't been able to find dumb boxes, until semeone loads the crypto are designed and approved by the NSA manufactured by Allied Signal. Both units or a KIV-7. The KG-84 has been manufacthis out for sure. I do know that it's somekeys that will be used on the link. As I un When installed initially they are basically ing Bendix and Allied Signal. The KIV-7 is tured by several different companies includ-The cryptography unit is either a KG-84

The hosts that are attached to the notwork have to be secured to at least a C-2 level. Security levels are tested by a SIPRnet tiger team out of Virginia. The exception to this rule though is that there are some NT boxes attached to this notwork. As you all know, NT is not C-2 unless it doesn't have a network card or floppy drive (go figure).

SIPRnet holds a lot of opportunities for those who have the skills to get access. Perhaps someone on the inside can give us more details.

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